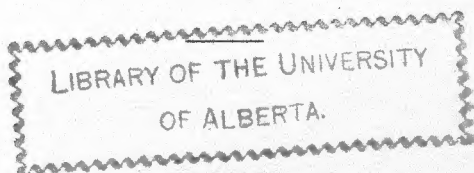


ANNUAL REPORT
OF THE
DEPARTMENT OF PUBLIC WORKS
OF THE
PROVINCE OF ALBERTA
1911

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY.



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EDMONTON, June 1st, 1912.

To His Honour,

GEORGE HEDLEY VICARS BULYEA,

Lieutenant Governor of the Province of Alberta.

SIR,—I have the honour to transmit herewith the Annual Report of the Department of Public Works from January 1 to December 31, 1911.

I have the honour to be, Sir,

Your obedient servant,

(Sgd.) A. L. SIFTON,

Minister of Public Works.

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R E P O R T
OF THE
DEPUTY MINISTER OF PUBLIC WORKS

HON. A. L. SIFTON, M.P.P.
Minister of Public Works.

SIR,—I have the honour to submit herewith the report of the Department of Public Works for the year 1911.

As intimated in the report of last year, the growth of population, the area of settlement is being extended, the demands upon the various branches of the department increases year by year, and there is great difficulty in coping with the increased requirements.

The large amount of railway construction being carried on by the various railway companies also tends to increase the work, and in many cases changes the trend of traffic.

During the year 265 timber bridges were constructed, nearly all of which were standard pile trestle structures, eleven steel bridges were constructed on timber and concrete substructures, seventy-two bridges were repaired, making a total of 348 bridges dealt with during the season.

The most important structures are: bridge over Red Deer River; Rocky Mountain House, consisting of two 125 ft. and one 60 ft. steel spans; also two bridges on Willow Creek, south-west of Claresholm, one consisting of 100 ft. steel span and the other consisting of one 125 ft. steel span.

The total number of ferries operated in the province during the year was 44. It was found necessary in some cases to replace some of the old scows. Nine new ferries were installed during the season; a complete list of ferries as well as bridges dealt with will be shown elsewhere in this report.

In view of the large influx of population in the various portions of the province and the fact that it is impossible with the funds at our disposal to construct all the large bridges required, we are endeavouring as far as possible to meet the traffic demands by installing ferries as the first means of meeting the requirements.

A large amount of road work was handled during the year, and a list of the various roads dealt with will be shown elsewhere in this report. The work has been carried on in accordance with the established policy of the department, *i.e.*, opening up and improving as far as possible the main or trunk roads and obtaining the co-operation of the local improvement districts in improving side roads. It is gratifying to note that in many localities these districts are taking hold of the work and putting forth their best efforts to co-operate with the department in building a uniform system of roads; with the contemplated establishment of municipalities which will grant the local organization greater powers, the

department should be relieved of a considerable amount of work which it has heretofore evolved upon it.

The Grande Prairie-Peace River trail, north from Edson via Sturgeon Lake, has been put in fairly good condition for traffic, bridges built and ferries installed where necessary. There were many other roads which might be mentioned, but they will be referred to in the list of roads given below.

In previous years we have been called upon to construct several miles of fireguards, but in view of the rapid settlement, the development of the country, the extension of irrigation canals and main roads, there was a very small amount of fire-guarding done this year.

While we sunk only very few public wells during the year, we have endeavoured to assist the settlers as far as possible by supplying them with well-boring machines on hand, free of charge where they were willing to pay the cost of operation. In this way, many of the settlers were able to secure a satisfactory supply of water at reasonable cost.

The work of the Surveys Branch continues to increase from year to year. The work in the north was continued this year, and a surveyor was employed throughout the season north of the Athabasca River, making the necessary surveys and superintending the work of road and bridge crews employed in that district.

The number of surveys and examinations made was 669 as compared with 461 last year. Plans prepared, filed in the Land Titles Office, 369. Certificates of title received, 373. Amount received as rental for leased roadways \$553.00, as compared with \$398.00 last year.

Regarding the administration of The Steam Boilers Act in the province, the returns for the year show a remarkable increase; this must of necessity continue in order to keep up with the rapid progress being made in all parts of the province. It is gratifying to note that boilers built to the regulations issued by the department in 1909 are giving entire satisfaction to steam users, and the results now seem to fully justify the action taken by the government in this respect. As evidence in support of this it may be stated that of the total number of boilers inspected during the year, 27 per cent. of them have been built in accordance with designs submitted to and approved by the department.

During the spring 58 regularly advertised examinations of candidates for engineers' certificates were held at various points in the province, and in addition to this examinations have been held at the headquarters of each inspector on the first Saturday in each month throughout the year. In all, 1,277 candidates presented themselves for examination during the year.

Only one fatal accident occurred and seven other accidents of a minor nature were also reported, but no serious or fatal injuries to any person resulted therefrom.

The number of certificates issued for boilers inspected was 1,311 as compared with 921 of the previous year.

The fees collected for all purposes amounted to \$15,388.05, as compared with \$11,561.00 the previous year. The reports of the different inspectors appear elsewhere, and will give a fair idea of the work conducted by this branch throughout the province.

Reports submitted to the Coal Mines Branch show that the output of the mines in the province for this year was 1,694,564 tons. It will be noted that the output for this year shows a large decrease compared with the year 1910. This is due to the fact that operations were discontinued in all the large mines in the southern part of the province owing to a strike which extended for a period of practically eight months. Sixty-eight new mines were opened during the year, making the total number of mines in operation 224. It is gratifying to note that although there were quite a number of accidents, the loss of life this year has been considerably less than that of last year. Further statistics with reference to this branch can be found from the report of the Provincial Inspector of Mines.

In the construction of public buildings considerable progress has been made, and this will be dealt with fully in the reports of the Provincial Architect and Structural Engineer.

Work of the Local Improvement Branch shows steady increase not only in the assessment and collection of taxes which the department deals with directly, but more especially in the assistance rendered in the administration of affairs of the villages and small local improvement districts. The total amount of taxes and fees collected under The Local Improvement Act and The Educational Tax Act, together with arrears collected from small local improvement districts, school districts and villages, amounted to \$292,518.58, being \$20,000.00 in excess of the previous year's collections.

There were 227 small local improvement districts fully organized and carrying on business in the province at the end of the year.

A complete list of all the districts giving the names of secretary-treasurers and rate of assessment will be found in the report of the Tax Commissioner. Full particulars of the work of this branch can be obtained from the report of the Tax Commissioner contained in this report.

The report of the Superintendent of Telephones shown elsewhere will give full particulars as to the work conducted by this branch during the year. The system is being extended as rapidly as consistent with good business management.

By referring to the accountant's report, a fair idea of the increase in the Accounting Department can be obtained.

The work of the Correspondence Branch still continues to increase, and is fair evidence of the increased work of the department. The total number of communications dealt with during the year was 396,976, as against 344,193 last year; and the amount of cash received from all sources was \$954,790.75, as against \$767,153.58 last year.

Respectfully submitted,

JOHN STOCKS,

Deputy Minister.

BRIDGES.

Several important bridges were constructed during the year 1911, but on account of the location it was found necessary to construct them on pile foundations.

The bridge over the Red Deer River at Mountain House Crossing, which was begun in 1910, was finished this year. It consisted of two 125 ft. through truss spans with one 60 ft. pony truss.

A bridge of two 125 ft. through truss spans was erected over the Pembina River at Belvedere to accommodate the large settlement north of the Pembina River.

Three bridges of single 125 ft. through truss spans were constructed on the following locations:—Willow Creek, west of 33-11-27-4; the Highwood River in Section 18-18-2-5, and over the Battle River in 13-46-7-4.

The 100 ft. through pony span north of Fabyan was completed and a bridge of the same description was built over the Battle River at Hastings Coulee. A 100 ft. through pony span with four 20 ft. approaches was commenced on the Little Red Deer River north of Township 33-3-5, and a similar span with two 20 ft. approaches was erected over the Willow Creek south-west of Stavely.

An 80 ft. through pony truss with two 20 ft. approaches was erected on the Little Bow River between 33, 34-13-20-4, and a similar bridge was constructed over Battle River, east of Wetas-kiwin.

A 60 ft. pony span was built over the Blind Man River at Bentley, and a similar bridge was erected over Battle River west of Ponoka and over the Sturgeon River west of St. Albert.

There was also a pile trestle bridge 275 ft. in length built over the Old Man River north of Brocket.

There were 11 steel and 265 timber bridges constructed during the year, besides repairs were made on 72 bridges, making a total of 348 bridges dealt with during the year.

BRIDGES 1911

STREAM	LOCATION.	REMARKS
Allio Draw	N. 30-49-1-5	Two 14 ft. spans on piles.
Amisk Creek	13 / 14-49-19-4	One 18 ft. span on piles.
Amisk Creek	15 / 16-49-19-4	One 16 ft. span on piles.
Amisk Creek	12 / 13-49-19-4	One 18 ft. span on piles.
Battle River	36-40-16-4	One 100 ft. steel span.
Blindman River	21 / 28-40-1-5	One 60 ft. steel with 220 ft. apps.
Blindman River	35 / 2-41 / 42-2-5	Repairs.
Barker's Draw	28 / 33-49-1-5	One 20 ft. span on piles.
Belly River	5-5-26-4	Repairs.
Big Peigan Creek	1 / 6-8-5 / 6-4	Two 20 ft. spans on piles.
Bullshead Creek	N.W. 17-11-5-4	Three 20 ft. spans on piles.
Bullshead Creek	19 / 20-11-5-4	Three 20 ft. spans on piles.
Bearberry Creek	4-33-6-5	One 40 ft. truss.
Boggy Creek	N.W. ¼ 35-58-15-4	One 8 ft. culvert.
Bear River	19 / 24-72-6 / 7-6	One 30 ft. truss.
Bear Creek	In Grande Prairie S't. ...	Three 20 ft. spans on piles.
Battle River	33 / 34-42-26-4	One 60 ft. steel with 2-18 ft. app.
Battle River	30 / 31-44-27-4	One 30 ft. truss, 2-18 ft. app.
Blindman River	34 / 35-44-2-5	Two 18 ft. spans on piles.
Battle River	S. 3-44-27-4	One 30 ft. truss.
Battle River	4-43-25-4	Repairs.
Bullpond Creek	21 / 22-31-15-4	One 16 ft. span frame.
Big Knife Creek	19 / 24-38-16-17-4	One 16 ft. span frame.
Bullpond Creek	12 / 13-31-15-4	One 16 ft. span frame.
Berry Creek	33 / 4-28 / 29-11-4	Two 20 ft. spans on piles.
Beaver Creek	12 / 13-55-19-4	Repairs.
Browns Creek	2 / 35-55 / 56-17-4	One 16 ft. span on piles.
Browns Creek	2 / 35-55 / 56-17-4	One 16 ft. span on piles.
Browns Creek	8 / 9-56-16-4	One 20 ft. span on piles.
Battle River	13-46-7-4	One 125 ft. steel span.
Battle River	19 / 20-45-7-4	One 100 ft. steel 3-20 ft. piles.
Big Stone Creek	2-47-24-4	Repairs.
Big Stone Creek	22 / 27-46-25-4	Three 20 ft. spans on piles.
Big Stone Creek	4 / 32-46 / 47-24-4	Repairs.
Battle River	S.E. ¼ 20-46-22-4	One 80 ft. steel span 2-20 ft.
Creek	25 / 30-41-1 / 2-4	One 16 ft. frame span.
Canal	3 / 34-4 / 5-23-4	Repairs.
Creek	S.W. ¼ 13-3-28-4	One 18 ft. span on piles.
Creek	9 / 16-1-12-4	One 16 ft. span on piles.
Creek	S.W. ¼ 13-3-28-4	One 18 ft. span on piles.
Coulee	E. 5-5-20-4	One 18 ft. span on piles.
Creek	S. 29-50-20-4	One 16 ft. span on piles.
Creek	S. 29-50-20-4	One 18 ft. span on piles.
Creek	E. 25-50-20-4	One 18 ft. span on piles.
Creek	S. 2-44-21-4	Two 18 ft. span on piles.
Creek	15-44-21-4	Two 18 ft. span on piles.
Creek	17-44-19-4	One 14 ft. span on piles.
Creek	17-44-19-4	One 16 ft. span on piles.
Creek	7-44-19-4	One 18 ft. span on piles.
Creek	1 / 6-11-28-29-4	One 20 ft. span on piles.
Creek	8-27-2-5	One 20 ft. span on piles.
Creek	7 / 12-29-2 / 3-5	One 16 ft. frame span.
Creek	15 / 16-28-4-5	One 16 ft. frame span.
Creek	E. 1-30-25-4	One 20 ft. span on piles.
Creek	15 / 16-22-25-4	One 20 ft. span on piles.
Creek	34 / 35-24-22-4	One 16 ft. span on piles.
Crowfoot Creek	22 / 23-24-22-4	Two 20 ft. span on piles.
Creek	27-23-22-4	One 16 ft. span on piles.
Creek	11 / 12-23-23-4	One 20 ft. span on piles.

STREAM	LOCATION.	REMARKS
Crossfield Creek	20 / 21-27-26-4	One 20 ft. span on piles.
Crossfield Creek	N. 27-27-26-4	One 20 ft. span on piles.
Crowfoot Crk. Mdle. B.	33 / 34-23-22-4	Two 20 ft. span on piles.
Crowfoot Creek	6 / 31-21 / 22-20-4	Timber.
Creek	2 / 35-16 / 17-29-4	Repairs.
Coal Coulee	7-18-2-5	One 20 ft. span on piles.
Creek	N. 36-34-3-5	One 18 ft. span on piles.
Creek	8 / 17-35-23-4	One 16 ft. span on piles.
Creek	19 / 30-35-24-4	One 16 ft. span on piles.
Coulee	11 / 14-36-24-4	One 18 ft. span on piles.
Creek	E. 2-41-25-4	One 18 ft. span on piles.
Creek	N. 32-41-2-5	One 20 ft. span on piles.
Creek	34 / 35-39-24-4	One 18 ft. span on piles.
Creek	34 / 35-41-27-4	One 16 ft. span on piles.
Creek	32-40-3-5	One 18 ft. span on piles.
Creek	S. W. 1/4 32-40-3-5	One 18 ft. span on piles.
Creek	E. 26-40-27-4	One 16 ft. span on piles.
Coulee	N.E. 1-9-22-4	Effloor.
Creek	22 / 5-5 / 6-22-4	One 20 ft. span on piles.
Canal	15 / 16-9-21-4	Two 16 ft. spans and piles.
Chin Coulee	S.W. 25-9-19-4	One 20 ft. span on piles.
Chin Coulee	4 / 5-10-18-4	One 20 ft. span on piles.
Chin Coulee	1 / 6-10-18 / 19-4	Grading.
Chin Coulee	26 / 35-6-11-4	Temporary bridge.
Creek	E. 24-50-24-4	One 20 ft. span on piles.
Creek	23 / 26-49-2-5	Two 18 ft. spans on piles.
Creek	S. 5-49-27-4	One 18 ft. span on piles.
Creek	7 / 18-49-27-4	One 18 ft. span on piles.
Creek	S. 4-49-2-5	Two 18 ft. spans on piles.
Creek	19-20-50-1-5	One 18 ft. span on piles.
Creek	12 / 13-50-27-4	One 20 ft. span on piles.
Creek	E. 13-50-24-4	One 20 ft. span on piles.
Creek	N. 33-49-27-4	One 20 ft. span on piles.
Creek	9 / 10-50-23-4	One 20 ft. span on piles.
Creek	1-48-24-4	Two 20 ft. spans on piles.
Creek	23-8-4-4	Repairs.
Creek	19 / 20-11-10-4	Grading.
Coulee	7 / 18-6-6-4	One 16 ft. span on piles.
Creek	6 / 1-6-6 / 7-4	One 16 ft. span on piles.
Creek	18 / 13-8-5 / 6-4	One 16 ft. span on piles.
Coulee	6 / 7-9-5 / 6-4	Two 18 ft. spans on piles.
Creek	11 / 14-7-3-4	One 16 ft. span logs.
Creek	11 / 14-7-3-4	One 16 ft. span on piles.
Creek	13 / 18-10-5 / 6-4	One 20 ft. span on piles.
Coulee	10 / 11-14-6-4	One 20 ft. span on piles.
Creek	N. 36-10-8-4	One 16 ft. span on piles.
Creek	31 / 36-5-6 / 7-4	One 18 ft. span on piles.
Cape Horn Creek	10 / 15-10-2-4	Log Bridge.
C. 2 small bridges S. of	Weazel Head 23-2-5	Repairs.
Creek	9 / 16-34-25-4	One 20 ft. span on piles.
Creek	24 / 25-60-12-4	Small Bridge.
Creek	32 / 33-60-11-4	One 18 ft. span log.
Cache Creek	7-60-12-4	One pole bridge.
Creek	27 / 28-3-29-4	One 18 ft. span on piles.
Creek	7 / 12-44-25 / 26-4	One 18 ft. span on piles.
Creek	7 / 12-44-25 / 26-4	One 14 ft. span on piles.
Creek	19-44-25-4	One 14 ft. span on piles.
Creek	E. 24-42-26-4	One 18 ft. frame span.
Creek	11 / 14-43-24-4	One 16 ft. span on piles.
Creek	13 / 18-43-23 / 24-4	One 16 ft. span on piles.
Creek	N.E. 1/4 34-42-34-4	One 16 ft. span on piles.
Creek	12 / 13-43-24-4	One 16 ft. span on piles.
Creek	12 / 13-43-24-4	One 16 ft. span on piles.
Creek	6-43-23-4	One 16 ft. span on piles.
Creek	12 / 13-39-5-5	One 18 ft. span on piles.

STREAM	LOCATION.	REMARKS
Creek	34 / 35-37-3-5	One 20 ft. span on piles.
Creek	19 / 20-39-4-5	Two 18 ft. spans on piles.
Creek	27 / 28-37-1-5	One 18 ft. span on piles.
Creek	11 / 14-39-5-5	Driving piles.
Creek	21 / 28-39-5-5	Two 18 ft. spans on piles.
Crow's Nest River	36-7-4-5	Repairs.
Crow's Nest River ...	7-8-4-5	Repairs.
Crow's Nest River	23 / 26-55-27-4	Refloor.
Carrott Creek	18 / 13-54-25 / 26-4	One 12 ft. crib.
Creek	9 / 10-57-27-4	One 22 ft. crib.
Creek	25 / 26-55-27-4	Small bridge.
Between River Lots ..	9 / 12-54-26-4	One 12 ft. span on piles.
Creek	14 / 15-42-12-4	Two 18 ft. spans on piles.
Creek	6 / 31-52 / 53-27-4	One 12 ft. span on piles.
Creek	23 / 24-53-27-4	One 16 ft. span on piles.
Creek	20-51-24-4	Repairs.
Creek	36-52-22-4	One 20 ft. span on piles.
Creek	12 / 13-23-4	Repairs.
Creek	8 / 17-52-23-4	One 16 ft. span on piles.
Creek	10 / 11-52-23-4	One 16 ft. span on piles.
Coulee	W. ½ 36-40-16-4	One 16 ft. span on piles.
Coulee	W. ½ 36-40-16-4	One 16 ft. span on piles.
Creek	19 / 30-58-19-4	Two 16 ft. spans on piles.
Creek	21 / 16-55-19-4	One 20 ft. span on piles.
Creek	9 / 10-15 / 16-55-21-4	One 20 ft. span on piles.
Creek	S. 2-55-16-4	One 16 ft. span on piles.
Creek	10 / 11-55-19-4	One 16 ft. span on piles.
Creek	19 / 20-57-16-4	One 20 ft. span on piles.
Creek	7 / 12-57-16 / 17-4	One 20 ft. span on piles.
Beaver Creek	22 / 27-55-19-4	One 16 ft. span on piles.
Creek	19 / 24-51-18 / 19-4	Repairs.
Creek	27 / 28-49-17-4	One 16 ft. span on piles.
Creek	23 / 24-54-13-4	One 16 ft. span on piles.
Creek	31 / 36-53-15 / 16-4	One 18 ft. span on piles.
Creek	23 / 26-48-14-4	One 18 ft. frame span.
Creek	3 / 34-53 / 54-14-4	Repairs.
Creek	10 / 15-54-14-4	One 18 ft. span on piles.
Creek	4 / 5-52-8-4	One 16 ft. span on piles.
Creek	N.E. ¼ 22-46-2-5	Repairs.
Creek	S. 25-46-3-5	Two 20 ft. spans on piles.
Creek	N. 33-46-3-5	Two 20 ft. spans on piles.
Creek	12 / 13-47-26-4	Two 20 ft. spans on piles.
Creek	21-47-24-4	Repairs.
Creek	6 / 31-45 / 46-23-4	Repairs.
Coal Lake Creek	N.W. ¼ 25-46-23-4	Repairs.
Creek	9 / 16-46-23-4	Repairs.
Davis Coulee	6-1-12-4	One 20 ft. span on piles.
Dried Meat Lake	17-44-19-4	22-20 ft. spans on piles.
Dog Pound Creek	20 / 29-39-3-5	Grading.
Dog Pound Creek	3-29-4-5	Grading.
Ditch at High River ...	6-19-28-4	Repairs.
Dog Rump Creek	3 / 4-57-7-4	One 18 ft. span on piles.
Deep Creek	35-56-22-4	One 20 ft. span on piles.
Deep Creek	20 / 21-55-21-4	One 20 ft. span on piles.
Elbow River	4 / 5-24-2-5	Repairs.
Elbow River	I. R. 23-2-5	Repairs.
Eagle Creek	3 / 34-33 / 34-4-5	One 20 ft. span on piles.
Floyd's Coulee	20 / 29-29-24-4	One 20 ft. span on piles.
Five Mile Coulee	1 / 36-10 / 11-4-4	One 20 ft. span on piles.
Fish Creek	22-22-3-5	Repairs.
Fish Creek	3 / 4-22-3-5	Repairs.
Fir Creek	34-58-16-4	One frame bridge.

STREAM	LOCATION.	REMARKS
Fish River	1 / 6-73-7 / 8-6	Two 35 ft. R. T. Truss.
Gimlet Creek	22 / 23-41-4-5	One 18 ft. span on piles.
Gros Ventre	12 / 13-9-4-4	Two 16 ft. spans on piles.
Ghost Pine Creek	N. 6-32-22-4	Two 20 ft. span piles.
Ghost Pine Creek	23 / 26-34-24-4	One 20 ft. span on piles.
Gold Creek	8-8-3-5	Four 20 ft. frame bridge.
Gold Creek	18-8-3-5	2-18 ft. and 2-20 ft. frame.
Gold Creek	19-8-3-5	Two 18 ft. frame spans.
Gold Creek	30-7-3-5	Two 18 ft. spans on piles.
Grizzly Bear Coulee.....	22 / 23-49-6-4	One 16 ft. frame span.
Grizzly Bear Coulee.....	26 / 27-49-7-4	One 16 ft. frame span.
Grizzly Bear Coulee.....	33 / 4-49 / 50-8-4	One 8 ft. frame span.
Ghost Pine Creek.....	31-35-24-5	Two 18 ft. spans on piles.
High River Dam at High River		Repairs.
Highwood River	18-18-2-5	One 125 ft. steel 4-20 ft.
Hudson Bay Creek	S. 5-49-2-5	One 18 ft. span on piles.
Hart River at Peace River Crossing		Repairs.
Horseguard Creek	7 / 12-39-4 / 5-5	Two 18 ft. spans on piles.
Hasting Creek	13 / 14-51-19-4	Two 16 ft. spans on piles.
Hasting Creek	9 / 16-51-19-4	Two 16 ft. spans on piles.
Irrigation Canal	23 / 33-4-23-4	One 30 ft. truss 2-16 ft. p. ap.
Irrigation Canal	5 / 6-8-20-4	Two 20 ft. spans on piles.
Irrigation Canal	10 / 15-9-19-4	One 16 ft. frame span.
Irrigation Canal	31 / 36-7-20 / 21-4	Two 20 ft. spans on piles.
Iron Creek	N.W. ¼ 35-58-15-4	Small bridge.
Iron Creek	19 / 30-45-13-4	Two 18 ft. spans on piles.
Iron Creek	19 / 20-44-11-4	Two 18 ft. spans on piles.
Iron Creek	7 / 18-44-10-4	Two 18 ft. spans on piles.
James River	10 / 11-34-7-5	One 50 ft. timber truss.
Jim Des Jartais Creek.....	82-24-5	Repairs.
Kipp Coulee	16-5-11-4	Grading.
Kipp Coulee	19 / 30-5-19-4	Repairs.
Knee Hill Creek	21 / 28-29-24-4	Three 20 ft. spans on piles.
Knee Hill Creek	8-35-3-5	Bank protection.
Kipp Coulee	31-36-5-9 / 10-4	One 20 ft. span on piles.
Kootenai Brook	30-6-2-5	Four 20 ft. spans on piles.
Kelsey Creek	20 / 29-52-22-4	One 16 ft. span on piles.
Knife Creek	10 / 11-41-17-4	Two 16 ft. spans on piles.
Kegiskap Creek	2 / 3-10-27-4	One 18 ft. span on piles.
Lesser Slave Lake at the Narrows		Repairs.
Lone Pine Creek	23 / 24-30-26-4	Two 20 ft. spans on piles.
Little Rosebud Creek.....	21 / 28-31-2-5	One 20 ft. span on piles.
Lobstick River	24 / 35-53-9-5	Eight 20 ft. spans on piles.
Little Bow River	33 / 34-13-20-4	One 80 ft. steel 2-20 p. ap.
Little Pelgan Creek	13 / 18-7-5 / 6-4	One 20 ft. span on piles.
Little Red Deer River.....	9 / 16-33-3-5	Repairs.
Little Vermilion River.....	5 / 32-57 / 58-26-4	One 20 ft. span on piles.
Lime Stone Creek	20 / 21-56-18-4	One 16 ft. span on piles.
Milk River	36-1-13-4	Reconstruction.
Meeting Creek	34 / 35-43-21-4	One 16 ft. span on piles.
Meeting Creek	20 / 21-43-20-4	Repairs.
Mosquito Creek	2 / 35-16 / 17-29-4	Repairs.
Medicine River	11 / 12-41-4-5	Three 18 ft. spans on piles.
Medicine River	N. 36-40-4-5	Five 20 ft. spans on piles.
Manyberries Creek	19 / 24-5-5 / 6-4	Two 20 ft. spans on piles.
Manyberries Creek	3 / 4-5-7-4	One 20 ft. span on piles.
Mosquito Creek	N. 12-16-28-4	One 50 ft. truss 3-20 ft. p. ap.

STREAM	LOCATION.	REMARKS
Mosquito Creek	15-16-28-4	One 50 ft. truss 3-20 ft. p. ap.
Mett Creek	25 / 26-58-17-4	One 18 ft. span on piles.
Mill Creek	24 / 25-58-17-4	Two 18 ft. spans frames.
Medicine River	2 / 35-41 / 42-4-5	Three 18 ft. spans on piles.
Many Pennies Creek ..	15 / 16-51-22-4	One 20 ft. span on piles.
Meeting Creek	S.E. 29-41-17-4	Repairs.
Muncies Creek	4 / 32-50 / 51-14-4	One 20 ft. span on piles.
Nose Creek	16 / 21-25-1-5	Repairs.
Nose Creek	12 / 13-26-1-5	One 20 ft. span on piles.
Nine Mile Coulee	22 / 27-6-21-4	Repairs.
Nanton Creek	20 / 21-16-28-4	Repairs.
Oldman River	North of Brockett	One 275 ft. trestle pile.
Olds Creek	10 / 15-34-2-5	One 20 ft. span and piles.
Oldman River	2-7-1-5	Repairs.
Pot Hole Coulee	36-5-22-4	Protection work.
Paddle River	29-57-8-5	Grading.
Paddle River	19 / 20-57-7-5	Grading.
Pot Hole Coulee	7 / 18-6-21-4	Grading.
Pipestone Creek	29 / 32-47-24-4	Repairs.
Pincher Creek	7-7-28-4	Seven 20 ft. spans on piles.
Peigan Creek	19 / 24-7-7 / 8-4	Two 20 ft. spans on piles.
Pine Creek	5-73-6-6	One 80 ft. R'd. T'ber Span.
Paint Earth Creek	N.E. 30-39-15-4	Two 18 ft. spans on piles.
Prudeus Creek	25 / 26-51-19-4	One 20 ft. span on piles.
Pipestone Creek	13 / 14-47-27-4	Repairs.
Pipestone Creek	10 / 15-47-26-4	Two 20 ft. spans on piles.
Pipestone Creek	11 / 14-47-24-4	Three 20 ft. spans on piles.
Pipestone Creek	22 / 23-47-25-4	Two 20 ft. spans on piles.
Pipestone Creek	21-47-24-4	Repairs.
Pipestone Creek	26 / 35-46-23-4	Repairs.
Flain Creek	1-58-14-4	One 12 ft. frame span.
Ribstone Creek	29 / 20-43-2-4	One 18 ft. span on piles.
Rosebud Creek	22 / 27-27-26-4	Three 20 ft. spans on piles.
Red Deer River	8-35-3-5	Two 125 ft. steel 1-60 ft.
Red Deer River	8-35-3-5	Bank protection.
Rainy Creek	7 / 8-41-2-5	One 16 ft. span on piles.
Rainy Creek	26 / 27-40-2-5	One 18 ft. span on piles.
Ross Creek	23-12-5-4	Grading.
Ross Creek	18 / 13-12-3 / 4-4	Two 20 ft. spans on piles.
Ross Creek	28-12-5-4	Repairs.
Red Rock Coulee	7 / 12-8-7 / 8-4	One 16 ft. span on piles.
Rose Bud Creek	11 / 14-32-2-5	One 18 ft. span on piles.
Red Deer River .....	.....	Repairs.
Red Earth Creek	36-58-15-4	One 20 ft. frame span.
Red Earth Creek	S.W. 1-59-15-4	small bridge.
Red Water River	1 / 2-58-22-4	Two 20 ft. spans on piles.
Ross Creek	12 / 13-54-22-4	One 20 ft. span on piles.
Ross Creek	23 / 26-54-22-4	Repairs.
Ross Creek	13 / 14-54-22-4	One 20 ft. span on piles.
Ross Creek	14 / 15-53-19-4	Two 20 ft. spans on piles.
Ross Creek	11 / 14-53-19-4	Two 18 ft. spans on piles.
Sturgeon River	16-54-26-4	Three 20 ft. spans on piles.
Salt Creek	76-14-5	One 20 ft. abutment.
Sucker Creek	74-14-4	Four 18 ft. on pier abutt.
Snake Creek	15 / 22-2-25-4	Repairs.
St. Mary's River	23-3-25-4	Repairs.
Sandstone Coulee	8 / 17-1-12-4	One 40 ft. truss.
Spring Creek	11 / 14-1-12-4	One 16 ft. span on piles.
Stony Creek	28-47-20-4	One 18 ft. span on piles.
Stony Creek	21 / 28-47-20-4	One 18 ft. span on piles.

STREAM	LOCATION.	REMARKS
Squaw Coulee	23-17-29-4	Two 16 ft. spans on piles.
Scott Coulee in Peigan Indian Reserve	17 / 18-10-7-4	Two 20 ft. spans on piles.
Seven Persons Creek ..	7-22-3-5	Two 20 ft. spans on piles.
Spring Creek		One 20 ft. span on piles.
Sheep Creek at Okotoks		Repairs.
South Burnt River in Spirit River Set'm't...		One 55 ft. truss 25 ft. app.
Spirit River on Dunvegan Trail		One 34 ft. log bridge.
Swamp Creek on Spirit River Trail		Reflooring.
St. Germain Creek on Trail to Shaftsbury ..		Repairs.
Sturgeon River on R. L. 2 St. Albert Set'm't...		One 60 ft. steel span.
Stony Creek	9 / 10-51-23-4	One 16 ft. span on piles.
Stony Creek	1 / 2-51-23-4	One 20 ft. span on piles.
Sucker Creek	22 / 23-58-20-4	One 18 ft. abutment.
Sucker Creek	32 / 33-58-20-4	Two 16 ft. spans on piles.
Sucker Creek	26 / 27-58-20-4	Two 16 ft. spans and piles.
Shooting Creek	9-37-17-4	One 14 ft. span on piles.
Twenty Mile Coulee ...	33 / 4-11 / 12-7-4	One 20 ft. span on piles.
Three Hills Creek	19 / 30-32-24-4	Two 20 ft. spans on piles.
Todd Creek	11 / 14-9-2-5	Two 16 ft. spans on piles.
Truesman's Creek	7 / 12-51-26 / 27-4	One 20 ft. span on piles.
Truesman's Creek	6 / 7-51-26-4	One 20 ft. span on piles.
Vermilion River	1 / 2-52-5-4	Four 18 ft. spans on piles.
Vermilion River	20-51-5-4	Three 20 ft. spans on piles.
Vermilion River	12 / 13-54-14-4	Two 18 ft. spans on piles.
Vermilion River	35-48-14-4	One 18 ft. span on piles.
Vermilion River	2 / 3-49-14-4	One 18 ft. span on piles.
Vermilion River	32 / 5-52 / 53-14-4	Two 18 ft. spans on piles.
Vermilion River	32-50-26-4	Repairs.
Vermilion River	20 / 21-54-11-4	Three 20 ft. spans on piles.
Vermilion River	6 / 1-51-7 / 8-4	Three 20 ft. spans on piles.
Vermilion River	23 / 24-52-10-4	Four 16 ft. spans on piles.
Willow Creek	29-9-26-4	Repairs.
Willow Creek	32 / 33-13-28-4	One 100 ft. steel 3-20 ft.
Willow Creek	W. 33-11-27-4	One 125 ft. steel 1-18 ft. 3-20 ft.
Willow Creek	12-11-27-4	Repairs.
Wolf Creek	S. 26-40-27-4	One 16 ft. span on piles.
Wolf Creek Centre	33-41-27-4	One 20 ft. span on piles.
Weed Creek	23-49-1-5	Repairs.
Whiskey Creek	6-22-3-5	One 16 ft. span on piles.
White Mud	6-59-15-4	Reconstruction.
White Mud	27-59-16-4	One 18 ft. span on piles.
White Earth	27-59-16-4	One 18 ft. span on piles.
Wolf Creek	3 / 4-42-27-4	One 18 ft. span on piles.
Wolf Creek	9 / 10-42-27-4	One 18 ft. span on piles.
Willow Creek ..	20 / 21-43-13-4	Repairs.
Wolf Creek	4 / 5-32-15-4	Two 16 ft. frame spans.

FERRIES.

The total number of ferries operated in the Province of Alberta during the year 1911 was 44.

It was found necessary to replace some of the old ferry scows, and new ones were built and put into service at the following points:

1. Red Deer River at Steerford.
2. North Saskatchewan River at Desjarlais.
3. South Saskatchewan River north of Bow Island.
4. Red Deer River east of Olds.

The following new ferries were installed:

1. The North Saskatchewan at 27 / 28-50-1-5.
2. The Big Smoky River on the Edson-Grande Prairie Road.
3. The Beaver River at 15-62-2-4.
4. The North Saskatchewan at 22 / 23-56-5-4.
5. The Athabasca River on the Edson-Grande Prairie Road.
6. The Baptiste River on the Edson-Grande Prairie Road.
7. The Little Smoky River on the Edson-Grande Prairie Road.
8. The Bow River at 13-17-17-4.
9. Lesser Slave River at Saw Ridge.

The following is a complete list of the ferries in operation at the close of the season in 1911:

1. North Saskatchewan River at Brosseau.
2. Red Deer River at Steerford.
3. North Saskatchewan River at Desjarlais.
4. Athabasca River at Holmes Crossing, on the Edmonton-Peace River Road.
5. Bow River near South Mission School, Indian Reserve.
6. Red Deer River North of Gleichen.
7. Oldman River near Summerview, Section 16-7-29-4.
8. North Saskatchewan River at Pakan.
9. North Saskatchewan River at Big Island, North of Sec. 20-51-25-4.
10. Red Deer River, Section 27-34-4-5.
11. North Saskatchewan River between Onion Lake and Lloydminster.
12. Pembina River, Tp. 58-3-5.
13. Athabasca River at Athabasca Landing.
14. Big Red Deer River east of Olds.
15. Pembina River, Section 10-60-1-5.
16. North Saskatchewan River at Shandro.
17. Red Deer River at Fieldholme.
18. North Saskatchewan River at Rocky Mountain House.
19. Narrows at Lac Ste. Anne.
20. North Saskatchewan River, north of Lamont.
21. Pembina River near Sunnibend.
22. Pembina River, Section 26-56-7-5.
23. Bow River south of Strathmore.
24. South Saskatchewan River at Bow Island.
25. Pembina River west of Wabamun.
26. Belly River north of Coaldale.
27. Bow River south of Brooks.
28. Bow River south of Bassano, Section 14-19-18-4.
29. Pembina River Sections 1 / 36-58 / 59-3-5.
30. Peace River at Peace River Landing.
31. Red Deer River, north of Brooks, Section 4-22-12-4.
32. North Saskatchewan River, Section 15-56-7-4.
33. Red Deer River at Carbon.
34. Peace River at Dunvegan.
35. Saskatchewan River north of Kitscoty.
36. North Saskatchewan River at 27 / 28-50-1-5.

37. The Big Smoky River on Edson-Grande Prairie Road.
38. The Beaver River at 15-62-2-4.
39. The North Saskatchewan River at 22-23-56-5-4.
40. The Athabasca River on Edson-Grande Prairie Road.
41. The Baptiste River on Edson-Grande Prairie Road.
42. The Little Smoky River on Edson-Grande Prairie Road.
43. The Bow River, Section 13-17-17-4.
44. The Lesser Slave River at Sawridge.

ROADS.

Below is given a complete list of the various roads dealt with during the year:

North of Kitscoty between sections 1 and 2, 11 and 12, 13 and 14, 24 and 26, townships 52 and 53, range 3, west of the 4th Meridian. Culverts.

North of Islay between sections 4 and 5, 8 and 9, 16 and 17, 20 and 21, townships 53 and 54, range 4, west of the 4th Meridian. Clearing, grading and culvert.

Township line crossing Blackfoot Coulee, between sections 3 and 34, townships 49 and 50, range 2, west of the 4th Meridian. Grading.

Road and landing at ferry south of Saskatchewan River, north-east $\frac{1}{4}$ of section 12, township 52, range 1, west of the 4th Meridian. Repairs.

Fourth Meridian, north of Lloydminster to Saskatchewan River. Grading.

West of Kitscoty two miles, township 50, range 3, west of the 4th Meridian. Grading.

South of Kitscoty between sections 13 and 14, 11 and 12, 1 and 2, townships 49 and 50, range 3, west of the 4th Meridian.

North of Chauvin, between sections 23 and 24, township 45, range 2, west of the 4th Meridian. Grading hill and moving ferry.

West of Fabyan between sections 19 and 20, township 4, range 7, west of the 4th Meridian. Grading.

South side of bridge over Vermillion River, south-east quarter of section 14, township 52, range 4, west of the 4th Meridian. Grading.

Grouard to Peace River. Grading, clearing and filling.

Mirror Landing west over Portage. Grading.

Jack-knife to Mirror Landing. Grading and clearing.

Bridge over Swamp Creek. Culverts and grading.

Norris to Sawridge. Grading, clearing and filling.

Grouard to Prairie River. Corduroying and grading.

Sawridge to Swan River. Grading, clearing and filling.

North-east of Aetna between sections 31 and 36, township 2, ranges 24 and 25, west of the 4th Meridian. Grading.

Along side of Indian Reserve, between sections 8 and 17, 7 and 18, township 3, range 26, west of the 4th meridian. Grading.

Cardston to Kimball between sections 11 and 14, township 2, range 25, west of the 4th Meridian. Grading.

Cardston to Mountain View, township 2, range 27, west of the 4th Meridian. Grading and culverts.

Lee's Creek to Leavitt, township 2, range 25 and 26, west of the 4th Meridian. Grading and filling.

North of Lumpy Butte, between sections 10 and 15, 9 and 16, township 3, range 24, west of the 4th Meridian. Cleaning.

To Woolford Elevator, between sections 9 and 10, townships 2 and 3, Range 24, west of the 4th Meridian. Grading.

Aetna to Cardston, between sections 10 and 11, 2 and 3, township 2, range 25, west of the 4th Meridian. Grading low places.

West of Mountain View between sections 13 and 18, 7 and 12, township 2, ranges 27 and 28, west of the 4th Meridian. Side hill cut and fill.

South of Caldwell, between sections 10 and 11, township 2, range 28, west of the 4th Meridian. Grading.

North of Mountain View between sections 17 and 20, township 2, range 27, west of the 4th Meridian. Culvert, fill and draining ditch.

North-west of Magrath, between sections 34 and 35, township 5, range 22, west of the 4th Meridian. Grading and filling.

Spring Coulee between sections 29 and 30, township 4, range 23, west of the 4th Meridian. Culvert and grading.

To Raley Station, between sections 22 and 23, 15 and 16, 23 and 26, township 4, range 24, west of the 4th Meridian. Grading.

West of railway between sections 34 and 35, 26 and 27, 21 and 22, township 1, range 25, west of the 4th Meridian. Repairing road, culverts and fills.

North of St. Mary, R.N.W.M.P. between sections 11 and 14, 12 and 13, township 1, range 24, west of the 4th Meridian. Repairing road.

East of Raley, between sections 10 and 15, township 4, range 24, west of the 4th Meridian. Filling low places.

Leading to Raley Station between sections 3 and 34, townships 3 and 4, range 24, west of the 4th Meridian. Grading.

North of boundary between sections 13 and 18, 19 and 29, township 1, ranges 25 and 26, west of the 4th Meridian. Side hill cut, draining ditch.

Near Lumpy Butte between sections 1 and 35, 2 and 34, townships 2 and 3, range 24, west of the 4th Meridian. Grading.

Caldwell Mail Route, township 2, range 25, west of the 4th Meridian. Repairing trail and filling.

At New Dayton between sections 23 and 26, 24 and 25, township 5, ranges 19 and 20, west of the 4th Meridian. Grading and culverts.

South of Magrath between sections 26 and 27, 34 and 35, township 4, range 22, west of the 4th Meridian. Culverts and side hill cut.

North of Lee Creek between sections 27 and 33, township 2, range 26, west of the 4th Meridian. Side hill filling and culverts.

Across Verdigris Coulee between sections 9 and 10, township 4, range 16, west of the 4th Meridian. Grading.

South of Kipp Coulee between sections 23 and 26, 24 and 25, township 5, ranges 19 and 20, west of the 4th Meridian. Grading.

West of Warner between sections 8 and 17, 7 and 18, township 4, range 17, west of the 4th Meridian. Grading.

South-west of Magrath between sections 27 and 28, township 5, range 22, west of the 4th Meridian. Culvert and grading.

West of Cardston, between sections 14 and 15, township 3, range 24, west of the 4th Meridian. Grading.

West of Pinepound Creek between sections 16 and 17, township 4, range 23, west of the 4th Meridian. Large culvert and fill.

West to Woolford Elevator between sections 22 and 27, 23 and 26, township 2, range 24, west of the 4th Meridian. Grading and culvert.

West of Suds Lake between sections 32 and 33, township 5, range 18, west of the 4th Meridian. Filling in slough bed.

South-west of Magrath between sections 25 and 30, township 4, range 21 and 22, west of the 4th Meridian. Cut and fills.

Verdigris Coulee to Milk River in section 29, township 2, range 14, west of the 4th Meridian. Grading and culverts.

Between sections 12 and 17, 1 and 6, township 4, ranges 23 and 24, west of the 4th Meridian. Side hill cut culvert and fill.

West of Pinepound Creek between sections 17 and 18, township 4, range 23, west of the 4th Meridian. Culvert and grade.

North-east of N.W.M. Police between sections 27 and 28, township 3, range 12, west of the 4th Meridian. Grading.

Boundary into Coutts, township 1, ranges 11 to 15, west of the 4th Meridian. Grading.

North of Warner, section 35, east of sections 27, 22 and 15, township 4, range 17, west of the 4th Meridian. Grading.

South-east of Tyrell Lake, section 35, township 4, range 17, west of the 4th Meridian. Grading slough.

Warner Trail, township 4, ranges 9, 10 and 11, west of the 4th Meridian. Improvements.

Between sections 22 and 27, township 3, range 12, west of the 4th Meridian. Filling small pot hole.

Between sections 19 and 30, township 3, range 11, west of the 4th Meridian. Culvert and grading.

East of Raley between sections 10 and 11, township 4, range 24, west of the 4th Meridian. Grading low places.

East of Kipp Coulee between sections 13 and 18, 19 and 24, township 5, ranges 19 and 20, west of the 4th Meridian. Grading.

North of Milk River, between sections 4 and 5, township 3, range 16, west of the 4th Meridian. Culvert.

Across Verdigris Coulee in section 20, township 4, range 16, west of the 4th Meridian. Grading.

South of Warner, between sections 20 and 29, 21 and 28, 27 and 28, township 3, range 17, west of the 4th Meridian. Two culverts.

Warner to Milk River between sections 8 and 17, 7 and 18, 12 and 13, township 3, range 16 and 17, west of the 4th Meridian. Two culverts.

South of Caldwell, north of section 12, township 2, range 28, west of the 4th Meridian. Log culvert.

East of Kipp Coulee, diversion in section 21, township 5, range 19, west of the 4th Meridian. Side hill grade.

South of Raymond, sections 5 to 32, township 5, range 20, west of the 4th Meridian. Grading and culverts.

Between sections 34 and 35, township 2, range 12, west of the 4th Meridian. Grading and two culverts.

Between sections 34 and 35, townships 2 and 3, range 12, west of the 4th Meridian. Grading township line north.

Diversion between sections 2 and 3, township 3, range 12, west of the 4th Meridian. Grading and culvert.

East and west in section 19, township 3, range 25, west of the 4th Meridian. Grading.

Between sections 20 and 21, township 2, range 24, west of the 4th Meridian. Grading and filling.

North of Wallace between sections 7 and 18, 8 and 17, township 42, range 18, west of the 4th Meridian. Grading.

Road to Pretty Hill between sections 1 and 2, township 49, range 20, west of the 4th Meridian. Grading.

South-east of Edberg, north of sections 34 and 35, township 43, range 20, west of the 4th Meridian. Grading and clearing.

Due west of Edberg on Canadian Northern Railway, range 20, west of the 4th Meridian. Grading.

Between sections 8 and 17, township 45, range 16, west of the 4th Meridian. Filling slough.

North of Lake Demay, township 48, range 19, west of the 4th Meridian. Grading.

North-east of Camrose, between sections 25 and 36, township 47, range 20, west of the 4th Meridian. Improvements.

East of sections 22 and 27, township 48, range 16, west of the 4th Meridian. Grading and improving road.

East of Owen Lake between sections 21 and 22, township 50, range 20, west of the 4th Meridian. Grading.

Ohaton via Round Hill east of section 36, township 47, range 19, west of the 4th Meridian. Culverts and fills.

East of Hay Lake, between townships 48 and 49, range 21, west of the 4th Meridian. Grading.

North-west of Camrose, between sections 10 and 15, 22 and 27, township 47, range 20, west of the 4th Meridian. Improvements.

Bawlf to Earling, township 45, ranges 17 and 18, west of the 4th Meridian. Grading.

Bawlf to Ryley, township 46, range 18, west of the 4th Meridian. Levelling and filling in.

North of Hay Lake, East of section 10, township 49, range 21, west of the 4th Meridian. Grading and filling.

Daysland to Holden, through townships 45, 46 and 47, range 16, west of the 4th Meridian. Improving.

West of Hastings Coulee, north-east quarter of section 36, township 41, range 16, west of the 4th Meridian. Grading.

Daysland south to Hastings Coulee, township 42, west of the 4th Meridian. Improvements.

From Miquelon Lake to Kingman, between sections 12 and 13, township 49, range 20, west of the 4th Meridian. Grading.

South of Sarepta, between sections 7 and 12, township 48, ranges 21 and 22, west of the 4th Meridian. Corduroy, brushing and grading.

South of New Sarepta, section 7, township 48, range 21, west of the 4th Meridian. Filling mud hole.

North of Ferintosh, township 44, range 21, west of the 4th Meridian. Improving two miles.

South-east end of Miquelon Lake, section 2, township 49, range 20, west of the 4th Meridian. Grading.

West of Duhamel, township 45, range 21, west of the 4th Meridian. Improving.

West of Meeting Creek, township 43, range 19, west of the 4th Meridian. Grading and filling.

Between the S.E. and N.E. quarter of section 11, township 45, range 21, west of the 4th Meridian. Improving.

East of township 45, range 21, west of the 4th Meridian. Grading and filling.

West of Cutbank, section 27, township 11, range 28, west of the 4th Meridian. Culvert and grading.

Oldman River to Macleod, in section 10, township 9, range 26, west of the 4th Meridian. Grading.

East from Granum, between townships 10 and 11, ranges 25 and 26, west of the 4th Meridian. Improvements.

South of Muddy Pound Creek between sections 24 and 25, township 11, range 28, west of the 4th Meridian. Culverts.

South of Carmangay between sections 20 and 29, township 12, range 23, west of the 4th Meridian. Grading.

South of Meadow Creek between sections 1 and 6, township 11, ranges 28 and 29, west of the 4th Meridian. Improvements.

East and west between sections 7 and 18, township 12, range 23, west of the 4th Meridian. Grading.

South-west of Leavings, between sections 36 and 35, township 10, ranges 26 and 27, west of the 4th Meridian. Culvert, grading and filling.

South from Carmangay, between sections 8 and 9, township 12, range 23, west of the 4th Meridian. Culverts.

Morleyville trail north of Bow River. Grading and filling.

North of Big Hill Creek, section 8, township 27, range 3, west of the 5th Meridian. Side hill grading.

Horse Creek and Dog Pound trail between sections 20 and 21, 21 and 22, townships 26 and 27, range 4, west of the 5th Meridian. Grading hill.

North-east of Sampsonston, township 29, ranges 2 and 3, west of the 5th Meridian. Improvements.

Section 31, township 28, range 4, west of the 5th Meridian. Repairing approach.

Cochrane-Calgary road, grading and widening hill.

South of Milford, between townships 25 and 26, range 4, west of the 5th Meridian. Repairs.

Between sections 10 and 15, township 27, range 1, west of the 5th Meridian. Subway and bridge.

Between sections 21 and 28, township 28, range 3, west of the 5th Meridian. Digging rock, plowing and scraping.

North-west of Beaverdam Creek. Improvements.

Through sections 10, 9, 16, 17, 18 and 19, township 29, range 5, west of the 5th Meridian. Grading.

South-west of Jumping Pound Creek, between sections 9 and 16, township 25, range 5, west of the 5th Meridian. Grading.

North of Cochrane between sections 10 and 15, township 26, range 3, west of the 5th Meridian. Cut, fill and two culverts.

West of Airdrie between sections 12 and 13, 11 and 14, township 27, range 3, west of the 5th Meridian. Grading.

North-east of Cochrane between sections 11 and 14, 12 and 13, township 26, range 3, west of the 5th Meridian. Culvert and side grade and fill.

West of Cremona between sections 4 and 5, township 30, range 4, west of the 5th Meridian. Grading.

North-east of Cochrane between sections 34 and 35, 2 and 3, 10 and 11, 14 and 15, township 26, range 3, west of the 5th Meridian. Culverts and side fills.

East of Grand Valley township 27, ranges 4 and 5, west of the 5th Meridian. Raising dump over culvert.

Between sections 1 and 6, 12 and 17, townships 29, ranges 2 and 3, west of the 5th Meridian. Grading, subway and culverts.

Through sections 9 and 16, township 29, range 5, west of 5th Meridian. Side hill grading and brushing.

North-east quarter of section 4, and the south-east quarter of section 9, township 31, range 3, west of the 5th Meridian. Cattle passes.

North of Bergen, south-west of sections 1 and 36, 31 and 6, 35 and 2, townships 31 and 32, range 5, west of the 5th Meridian. Grading.

South of Bergen, between sections 35 and 2, 34 and 3, townships 30 and 31, range 5, west of the 5th Meridian. Improvements.

Three Hills to Ghost Pine Creek between sections 22 and 27, 23 and 26, township 31, range 23, west of the 4th Meridian. Grading.

Acme to Carbon, between townships 29 and 30, range 25, west of the 4th Meridian. Improvements.

Between sections 20 and 29, township 29, range 24, west of the 4th Meridian. Grading and culverts.

South of Drumheller in townships 28 and 29, range 20, west of the 4th Meridian. Culverts and grading.

Between sections 1 and 6, township 30, ranges 24 and 25, west of the 4th Meridian. Grade and culverts.

Calgary-Edmonton trail, section 28, township 25, range 29, west of the 4th meridian. Improvements.

Calgary-Knee Hill trail between sections 28 and 33, township 27, range 26, west of the 4th Meridian. Culverts and grading.

Between sections 28 and 29, 20 and 21, township 22, range 21, west of the 4th Meridian. Culvert and grading.

South-east of section 23, south-west of section 24, between 6 and 1, townships 22 and 23, ranges 23 and 24, west of the 4th Meridian. Grading and culvert.

South to Bow River from Strathmore. Improvements.

Between sections 3 and 33, townships 22 and 23, range 22, west of the 4th Meridian. Grading slough and culvert.

Road to Stobert, section 28, township 22, range 23, west of the 4th Meridian. Improvements.

North-west of section 33, south-west of section 3, 36 and 6, townships 22 and 23, ranges 23 and 22, west of the 4th Meridian. Grading slough.

Between sections 4 and 11, 10 and 15, 1 and 2, township 23, range 23, west of the 4th Meridian. Grading and culverts.

North of section 31, township 23, range 23, west of the 4th Meridian. Improving.

West of section 20, township 23, range 23, west of the 4th Meridian. Culvert and improving.

Between sections 21 and 28, township 22, range 22, west of the 4th Meridian. Grading culvert and side hill work.

Between sections 10 and 15, township 23, range 22, west of the 4th Meridian. Improvements.

Between sections 16 and 17, township 23, range 23, west of the 4th Meridian. Culverts and grading.

South of sections 25 to 30, township 23, range 23, west of the 4th Meridian. Grading, filling and culverts.

Bassano to Fieldholme, townships 21 to 24, ranges 14 to 18, west of the 4th Meridian. Improvements.

Between sections 1 and 2, township 23, range 23, west of the 4th Meridian. Two culverts and grading.

North of sections 7, 8, 9, 10 and 11, township 28, range 26, west of the 4th Meridian. Building subway and grading.

Between sections 10 and 11, 14 and 15, township 23, range 23, west of the 4th Meridian. Grading and three culverts.

Between sections 25 and 26, township 27, range 26, west of the 4th Meridian. Culverts and grading.

South of Drumheller, between townships 28 and 29, range 20, west of the 4th Meridian. Improvements.

Between sections 1 and 6, township 23, ranges 23 and 24, west of the 4th Meridian. Improvements.

Between sections 12 and 13, township 19, range 2, west of the 4th Meridian. Grading and improving.

Township 17, range 29, west of the 4th Meridian. Culverts and grading.

On township east of section 25, township 19, ranges 26 and 27, west of the 4th Meridian. Improvements.

West of section 24, township 19, range 27, west of the 4th Meridian. Grading and culverts.

North of section 24, township 19, range 27, west of the 4th Meridian. Improvements.

North of section 16, township 18, range 26, west of the 4th Meridian. Improvements.

East of Brant, east of section 6 to 31, township 18, range 25, west of the 4th meridian. Culverts and grading.

West of Innisfail, between sections 24 and 25, township 35, range 1, west of the 5th Meridian. Cutting down hill and filling.

Raven and Medicine River between sections 9 and 16, 8 and 17, township 36, range 3, west of the 5th Meridian. Improvements.

East of Penhold, section 29, township 36, range 26, west of the 4th Meridian. Grading.

Road to Pine Lake, township 36, range 25, west of the 4th Meridian. Clearing, grubbing and four culverts.

Old Mountain House trail, section 16, township 35, range 3, west of the 5th Meridian. Improvements.

East and west road north of Perbeck, township 35, range 23, west of the 4th Meridian. Culverts and grading.

North of Louisania on Grand Trunk Pacific, township 36, range 23, west of the 4th Meridian. Improvements.

West of Dickson, south of section 3, east of section 1, township 36, range 3, west of the 5th Meridian. Improvements.

South of Mountain House, between sections 1 and 36, townships 34 and 35, range 3, west of the 5th Meridian. Grading.

North of Sitting Stone, north of sections 31 to 33 and 34 to 36, township 41; ranges 21 and 22, west of the 4th Meridian. Grading.

Between sections 33 and 34, township 29, range 28, west of the 4th Meridian. Culverts and grading.

Lacombe to Gull Lake. Improvements.

North of Alix, section 31, township 40, range 22, west of the 4th Meridian. Grading.

Between sections 3 and 34, townships 38 and 39, range 22, west of the 4th Meridian. Repairing culvert.

West of Forshee between townships 41 and 42, ranges 1 to 5, west of the 5th Meridian. Repairing.

Gull Lake trail, diversion to Gilby between sections 23 and 26, township 40, range 2, west of the 5th Meridian. Corduroy, grading and grubbing.

East of Gull Lake between sections 11 and 14, township 41, range 28, west of the 4th meridian. Clearing.

South of Lockhart Post Office, between sections 7 and 8, 17 and 18, township 41, range 2, west of the 5th Meridian. Grading.

East to Alix in section 29, township 39, range 22, west of the 4th Meridian. Culvert and grading.

Southwest of Lacombe, between sections 13 and 18, 31 and 36, 12 and 7, township 40, ranges 26 and 27, west of the 4th Meridian. Grading and improving.

Northwest of Chigwell, south of section 13, township 41, range 26, west of the 4th Meridian. Grubbing and grading.

Tees to Alix Hill, township 40, range 23, west of the 4th Meridian. Grading.

Northeast of Haunted Lakes, between sections 15 and 16, township 40, range 22 west of the 4th Meridian. Improving.

From Gilby to Medicine Valley, townships 40 and 41, ranges 3 and 4, west of the 5th Meridian. Grading.

West of Chigwell, between sections 3 and 4, township 41, range 36, west of the 4th Meridian. Improvements.

Grande Prairie Road. Improving.

From Edson to Grande Prairie, near Athabasca River. Improvements.

North of Wabamun between sections 12 and 13, township 53, range 4, west of the 5th Meridian. Improvements.

From Wabamun Narrows to Lac Ste. Anne. Improvements.

Lac Ste. Anne to Narrows. Brushing, clearing and grading.

Lac Ste. Anne to Whitecourt. Improvements.

Athabasca River hill near Whitecourt. Grading and fill.

Round Hill to Entwistle between sections 31 and 36, township 52, ranges 6 and 7, west of the 5th Meridian. Improving.

Blind line between sections 13 and 18, township 52, range 5, west of the 5th Meridian. Clearing.

Onoway to Manly between sections 21 and 22, township 54, range 2, west of the 5th Meridian. Corduroy grading and culvert.

West of Onoway between sections 33 and 34, township 54, range 2, west of the 5th Meridian. Grading.

To Pembina River, townships 55 and 56, range 5, west of the 5th Meridian. Improvements.

South of Entwistle, section 20, township 53, range 7, west of the 5th Meridian. Grading.

Lac Ste. Anne to Rich Valley, sections 10 and 11, townships 55 and 56, range 3, west of the 5th Meridian. Improvements.

Fallis Hill, north of Wabamun Lake, sections 14 and 15, township 53, range 5, west of the 5th Meridian. Grading.

Near Barkers between sections 13 and 14, 23 and 24, 25 and 26, 35 and 36, township 55, range 5, west of the 5th Meridian. Improvements.

Between Wabamun and Rexboro between sections 18 and 19, 17 and 20, township 53, range 4, west of the 5th Meridian. Grading and improvements.

From Wright's crossing to Roydale, between sections 14 and 15, 10 and 11, 2 and 3, township 57, range 7, west of the 5th Meridian. Improvements.

Onoway to Glenford, east of section 33, township 54, range 2, west of 5th Meridian. Grading.

Between Lethbridge and Cardston. Improvements.

Across Belly River to steel bridge at Lethbridge. Grading, culvert and filling.

North of Raymond between sections 29 and 30, 31 and 32, township 6, range 20, west of the 4th Meridian. Grading.

Coaldale to Lethbridge, townships 8 and 9, ranges 20 and 21, west of the 4th Meridian. Improvements.

East of Lethbridge, between sections 22 and 23, township 8, range 21, west of the 4th Meridian. Grading.

West of Barr Hill, between sections 19 and 20, 17 and 18, 29 and 30, township 12, range 21, west of the 4th Meridian. Culverts, filling and grading.

East of Stirling between sections 17 and 18, 19 and 20, township 6, range 17, west of the 4th Meridian. Culvert and fills.

East of Stirling, south of sections 4 and 5, township 7, range 18, west of the 4th Meridian. Plowing, grading hills and coulee.

At Stirling, sections 1, 2, 3, 5 and 6, township 7, ranges 18 and 19, west of the 4th Meridian. Culverts, grading and filling.

North of Raymond, between sections 23 and 26, township 6, range 21, west of the 4th Meridian. Culverts.

South of Stirling, between sections 9 and 16, township 6, range 19, west of the 4th Meridian. Repairing.

At Kipp Coulee, sections 29 and 30, township 6, range 17, west of the 4th Meridian. Grading.

North of Sundial Butte, sections 5 and 32, township 14, range 22, west of the 4th Meridian. Culverts and fencing.

Lethbridge to jail, sections 3, 34 and 9, townships 8 and 9, range 21, west of the 4th Meridian. Grading.

Crossing of Chin Coulee, south of Taber, sections 31 and 36, township 7, ranges 16 and 17, west of the 4th Meridian. Improvements.

North of Purple Springs, sections 1 and 6, township 16, ranges 14 and 15, west of the 4th Meridian. Grading.

South of Grassy Lake, sections 3 and 4, township 10, range 13, west of the 4th Meridian. Widening grade and hauling clay.

North of Albion Ridge sections 7 and 18, township 12, range 22, west of the 4th Meridian. Improvements.

Lethbridge to Coaldale, between sections 13, 14, and 15, township 9, range 21, west of the 4th Meridian. Grading.

South west of Stirling between sections 22 and 25, township 6, range 19, west of the 4th Meridian. Raising grade.

Southeast of Stirling, sections 9 and 16, township 6, range 18, west of the 4th Meridian. Culverts and grading.

North and south road, southeast of Stirling, township 6, range 18, west of the 4th Meridian. Culverts and grading.

South of Albion Ridge, sections 10 and 11, 14 and 15, township 11, range 22, west of the 4th Meridian. Culverts.

From Coulee banks to steel bridge north of Taber. Improvements.

West of Driftwood Bend, sections 35 and 36, township 11, range 17, west of the 4th Meridian. Repairing grade and bridge.

Southeast of Purple Springs. Grading.

Northeast of Keho, sections 20 and 21, township 11, range 22, west of the 4th Meridian. Culvert.

East of Keho, south of sections 3 and 4, township 11, range 22, west of the 4th Meridian. Culvert, levelling and grading.

Road allowance between sections 11 and 12, township 11, range 22, west of the 4th Meridian. Improvements.

Diversion in section 26, township 10, range 20, west of the 4th Meridian.

South of Picture Butte, sections 2 and 34, townships 10 and 11, range 21, west of the 4th Meridian. Culverts and grading.

At Kinnondale between sections 15 and 16, 22 and 21, township 17, range 18, west of the 4th Meridian. Culverts and levelling.

East of Purple Springs between sections 3 and 34, townships 9 and 10, range 15, west of the 4th Meridian. Improving.

North and south road between sections 1 and 2, 23 and 24, 35 and 36, township 13, range 17, west of the 4th Meridian. Grading.

From Burdette to Kipp Coulee, between sections 35 and 36, township 3, range 12, west of the 4th Meridian. Slush scraping.

From Bow River to Bow City between sections 7 and 18, township 17, range 17, west of the 4th Meridian. Improving.

At Coaldale between sections 14 and 15, township 9, range 20, west of the 4th Meridian. Two culverts and grade.

Diversion between sections 21 and 28, township 11, range 22, west of the 4th Meridian, posts, wire and building fence.

South of Stirling, sections 20 and 21, township 6, range 19, west of the 4th Meridian. Grading.

North of Bow Island between sections 1 and 2, township 11, range 11, west of the 4th Meridian. Grading.

North of Bow Island between sections 2 and 3, township 11, range 11, west of the 4th Meridian. Grading.

North of Bow Island between sections 1 and 3, township 11, range 11, west of the 4th Meridian. Culverts and grading.

South of Raymond, sections 1 and 36, townships 5 and 6, range 20, west of the 4th Meridian. Grading pot holes.

Northwest of Coaldale sections 20 and 21, township 9, range 20, west of the 4th Meridian. Grading and culvert.

East of Stirling, sections 3 and 4, township 7, range 19, west of the 4th Meridian. Culvert and grading.

Into New Dayton townships 5 and 6, ranges 17 and 18, west of the 4th Meridian. Grading.

North of Chin sections 1 and 6, township 10, ranges 18 and 19, west of the 4th Meridian. Improving.

Southeast of Lethbridge, sections 23 and 26, township 8, range 21, west of the 4th Meridian. Grading.

Northwest of Bow Island, sections 3 and 10, township 11, range 11, west of the 4th Meridian. Grading.

North of Lethbridge, sections 21 and 28, 22 and 27, township 9, range 21, west of the 4th Meridian. Improvements.

South of Macleod trail sections 35 and 36, township 9, range 15, west of the 4th Meridian. Filling holes.

South of Bow Island, townships 6 to 10, range 11, west of the 4th Meridian. Cutting rock, and grading.

Near Woodpecker Lake, sections 17 and 18, 19 and 20, township 10, range 16, west of the 4th Meridian. Repairing.

East of Chin Coulee, section 36, township 6, range 12, west of the 4th Meridian. Diversion, grade and side hill work.

East of Kinnondale, sections 19 and 24, 13 and 18, township 17, ranges 17 and 18, west of the 4th Meridian. Grading and culverts.

At Chin Coulee, section 28, township 6, range 11, west of the 4th Meridian. Improvements.

Calgary and Edmonton trail. Improving.

Township 49, ranges 24, 25 and 26, west of the 4th Meridian. Repairs, culverts and improvements.

South of Telfordville, section 6, townships 48 and 49, range 2, west of the 5th Meridian. Corduroying.

South of creek, sections 7 and 8, township 49, range 27, west of the 4th Meridian. Filling.

On township line between 48 and 49, range 24, west of the 4th Meridian. Grading, clearing and culvert.

West of Conjurung Creek, south of section 6, township 49, range 26, west of the 4th Meridian. Culvert, grading and grubbing.

West of Saron, south of section 3, township 49, range 26, west of the 4th Meridian. Covering corduroy.

Blind line west of Millet, sections 28 and 33, 29 and 32, township 47, ranges 25 and 26, west of the 4th Meridian. Repairs.

South of Hay Lake, sections 11 and 14, 12 and 13, township 48, range 23, west of the 4th Meridian. Corduroy, brush and culvert.

Road to Leduc, sections 15 and 16, township 48, range 25, west of the 4th Meridian. Grading and improving.

Leduc-Hay Lakes trail, township 49, ranges 23 and 24, west of the 4th Meridian. Grading.

East of Conjurung Creek, from sections 13 to 17, and through 18, township 50, range 26, west of the 4th Meridian. Improving.

Strathcona to Leduc, sections 9 and 16, township 50, range 25, west of the 4th Meridian. Grading and filling.

Government road, township 50, range 27, west of the 4th Meridian. Grading and brushing.

Leduc to Telfordville, sections 28 and 33, township 49, range 1, west of the 5th Meridian. Repairing.

Range Line township 49, ranges 26 and 27, west of the 4th Meridian. Repairs.

Between bridge over Oldman River west of Macleod and Macleod. Improvements.

South of Macleod, sections 11 and 12, township 8, range 26, west of the 4th Meridian. Grading and culvert.

North of Belly River, sections 19 and 20, township 9, range 23, west of the 4th Meridian. Improvements.

Medicine Hat to Radcliffe, section 2, township 13, range 6, west of the 4th Meridian. Filling in culvert.

Porter Hill. Repairs.

Josephsburg trail. Improvements.

Sections 4 and 33, townships 9 and 10, range 3, west of the 4th Meridian. Grading hill and culvert.

Medicine Hat south to Cypress Hills. Grading and filling.

Irvine south to Cypress Hills. Improvements.

North of Medicine Hat, sections 10 and 11, 34 and 35, townships 13 and 14, range 6, west of the 4th Meridian. Grading.

South of Medicine Hat to Lodge Detachment on Eagle Butte Trail township 7, range 3, west of the 4th Meridian. Repairs.

On Medicine Hat-Seven Persons trail, section 9 and 10, 15 and 16, township 12, range 6, west of the 4th Meridian. Grading two water holes.

Between sections 34 and 35, township 10, range 3, west of the 4th Meridian. Improvements.

Irvine to Walsh, township 11, range 1, west of the 4th Meridian. Grading.

South hill road to Gros Ventre Creek, sections 15 and 16, township 11, range 3, west of the 4th Meridian. Improving.

Section 36, township 11, range 3, west of the 4th Meridian. Grading and filling.

North of Gros Ventre, section 10, township 10, range 4, west of the 4th Meridian. Grading and culverts.

East of Little Plume sections 13 and 14, township 9, range 5, west of the 4th Meridian. Grading on culverts.

South of Strathmartin, sections 21 and 28, township 7, range 2, west of the 4th Meridian. Five culverts.

South of Strathmartin, sections 11 and 14, township 7, range 3, west of the 4th Meridian. Opening road.

At Thelma, section 30, township 7, range 2, west of the 4th Meridian. Corduroy, culvert and grading.

To Mill and Graburn from Walsh. Three culverts.

Elkwater to Eagle Butte, section 20, township 8, range 3, west of the 4th Meridian. Grading.

Northeast of Josephsburg, sections 15 and 16, township 9, range 2, west of the 4th Meridian. Filling in bridge and culvert.

Under railway bridge, section 6, township 13, range 5, west of the 4th Meridian. Repairs.

Sections 2 and 3, 10 and 11, 13 and 14, townships 10 and 11, range 2, west of the 4th Meridian. Culverts and grade.

West of Bullshead Creek, sections 19 and 20, township 11, range 5, west of the 4th Meridian. Grading culvert.

South of Winnifred, sections 1 and 36, townships 10 and 11, range 9, west of the 4th Meridian. Culverts.

North and south road west of Red Deer Lake, sections 3 and 4, 9 and 16, 15 and 16, townships 15 and 16, range 4, west of the 4th Meridian. Grading and filling.

North of Irvine, sections 24 and 19, 12 and 2, 3 and 4, township 12, range 2, west of the 4th Meridian. Grading and improving.

South of Winnifred, sections 5 and 6, township 9, range 9, west of the 4th Meridian. Culverts.

East of Seven Persons, township 9, range 9, west of the 4th Meridian. Grading and improving.

Between sections 13 and 18, 7 and 12, townships 8 and 9, range 10, west of the 4th Meridian. Double tile drain.

Warner trail, township 4, ranges 9, 10 and 11, west of the 4th Meridian. Improving.

South of Seven Persons, townships 9 and 10, range 7, west of the 4th Meridian. Grading and culverts.

South of Seven Persons, township 10, range 7, west of the 4th Meridian. Improving.

North of Pashley Station, sections 13 and 18, township 12, ranges 3 and 4, west of the 4th Meridian. Grading hill and culverts.

North of Carlstadt, townships 15 and 16, range 10, west of the 4th Meridian. Improving.

North of Suffield, townships 15 to 17, range 9, west of the 4th Meridian. Grading and improving.

South of Seven Persons, townships 6 to 10, ranges 7 and 8, west of the 4th Meridian. Improvements.

East of Long Lake, township 7, range 9, west of the 4th Meridian. Grading.

North and south road sections 33 and 34, township 9, range 9, west of the 4th Meridian. Grading and improving.

East and west road sections 3 and 34, townships 9 and 10, range 9, west of the 4th Meridian. Improving and grading.

North and south road sections 25 and 26, township 9, range 9, west of the 4th Meridian. Grading.

Across Chin Coulee sections 27 and 28, township 6, range 10, west of the 4th Meridian. Improvements.

South of Bullshead, sections 14 and 15, township 11, range 6, west of the 4th Meridian. Tile culverts and grading.

East of Little Plume, sections 18 and 13, township 9, ranges 4 and 5, west of the 4th Meridian. Culverts, and grade.

South of Little Plume, sections 13 and 12, township 9, range 5, west of the 4th Meridian. Culverts.

West of Winnifred, sections 13 and 18, township 11, range 10, west of the 4th Meridian. Grading and culverts.

East of Carlstadt, section 25 to 29, township 15, range 10, west of the 4th Meridian. Clearing and grading.

West of Deer Lake, townships 15 and 16, range 4, west of the 4th Meridian. Grading.

Through sections 9 and 10, township 16, range 29, west of the 4th Meridian. Building subways.

Near Pine Coulee sections 28 and 29, township 14, range 28, west of the 4th Meridian. Improving.

North of Parkland, section 7, township 15, range 26, west of the 4th Meridian. Subway.

South of Nanton, in section 13, township 16, range 28, west of the 4th Meridian. Subway.

West of Pine Coulee, sections 32 and 33, township 14, range 28, west of the 4th Meridian. Grading.

Between sections 4 and 33, 34 and 3, townships 13 and 14, range 23, west of the 4th Meridian. Grading.

Southwest of Nanton, between sections 8 and 9, township 16, range 28, west of the 4th Meridian. Improvements.

Between sections 29 and 30, township 15, range 29, west of the 4th Meridian. Grading and improvements.

Between sections 4 and 9, township 24, range 2, west of the 5th Meridian. Grading and improving.

Across Sarcee Reserve. Repairing culverts.

On blind line between sections 2 and 3, 10 and 3, 9 and 4, township 24, range 3, west of the 5th Meridian. Culverts and grubbing.

Between sections 18 and 19, township 20, range 1, west of the 5th Meridian. Grading.

Between sections 27 and 28, 33 and 34, township 20, range 28, west of the 4th Meridian. Improving and grading.

Between Sprucevale and Jumping Pond Post Office. Improvements.

Okotoks and Sandstone. Grading.

South of Priddis, through sections 4, 5, 6, 7, Township 22, range 3, west of the 5th Meridian. Culverts.

South of Priddis, section 32, township 21, range 3, west of the 5th Meridian. Subways.

North of Pine Creek, in the northwest quarter of section 9, township 22, range 1, west of the 5th Meridian. Subway.

West of Calgary, between sections 1 and 2, township 24, ranges 1 and 2, west of the 5th Meridian. Culverts.

Crossing Calgary trail, between sections 2 and 3, township 24, range 2, west of the 5th Meridian. Grading and culverts.

West of Olds, sections 31 and 32, 5 and 6, townships 32 and 33, range 2, west of the 5th Meridian. Grading, clearing and culverts.

At Nine Mile Coulee between sections 4 and 33, townships 32 and 33, range 28, west of the 4th Meridian. Removing rocks.

From Harmattan to Olds in the southeast quarter of section 29, township 32, range 2, west of the 5th Meridian. Brushing, clearing and grading.

East of Kneehills Creek, sections 1 and 36, township 34, range 26, west of the 4th Meridian. Bushing and grading.

Rosenbargo Hill, sections 20 and 29, township 33, range 27, west of the 4th Meridian. Grading.

Northeast of Eagle Hill, sections 34 and 35, township 22, range 3, west of the 5th Meridian. Clearing brush and building culverts.

Garrington Road, section 26, township 34, range 4, west of the 5th Meridian. Grading.

Eagle Creek road, townships 33 and 34, ranges 1 to 5, west of the 5th Meridian. Improving and grading.

West of Red Deer, townships 32 and 33, ranges 5 and 6, west of the 5th Meridian. Repairing.

Section 18, township 33, range 27, west of the 4th Meridian. Filling in coulee with steel culvert.

At Trochu on road allowance between sections 21 and 28, township 33, range 23, west of the 4th Meridian. Grading.

Between sections 8 and 9, township 33, range 28, west of the 4th Meridian. Improving road and sloughs.

Northeast of Olds, between sections 12 and 13, township 33, range 29, west of the 4th Meridian. Fixing sloughs.

Trail to Olds, between sections 10 and 15, township 33, range 2, west of the 5th Meridian. Cutting down hill.

From Eagle Hill to Olds, between sections 7 and 18, 8 and 17, township 33, range 2, west of the 5th Meridian. Culverts and clearing.

North of James River between sections 19 and 22, township 34, range 5, west of the 5th Meridian. Grading.

From Huxley to Trochu between sections 29 and 30, township 32, range 23, west of the 4th Meridian. Improving.

East of Kneehills Creek, sections 21 and 22, township 34, range 26, west of the 4th Meridian. Small bridge and grading.

Southwest of Olds, sections 13 and 14, township 32, range 2, west of the 5th Meridian. Grading and clearing.

Southwest of Olds, sections 15 and 16, township 32, range 2, west of the 5th Meridian. Brushing, grading and corduroying.

Boggy Creek Hill, section 6, township 59, range 15, west of the 4th Meridian. Culverts and grading.

Between Whitefish and Lac La Biche. Improvements.

Sections 19 and 20, 17 and 18, township 60, range 11, west of the 4th Meridian. Grading and clearing.

North of Saddle Lake. Grading and culverts.

West of Elk Point, sections 1 and 6, 1 and 3, township 57, ranges 6 and 7, west of the 4th Meridian. Grading and clearing.

West of Dufresne Lake sections 1 and 6, 31 and 36, townships 56 and 57, ranges 6 and 7, west of the 4th Meridian. Improvements.

North of Lloydminster, ferry approaches on 4th meridian. Repairing.
Between Edouard Post Office, Pakan and Saddle Lake trail leading to Wahstao Post Office. Improvements.

Northeast of Wahstao, township 58, ranges 14 and 15, west of the 4th Meridian. Improvements.

Southeast of St. Edouard, sections 9 and 16, and 7, township 58, range 8, west of the 4th Meridian. Repairs.

In the vicinity of Flat Lake. Improvements.

North of St. Paul des Metis, sections 10 and 15, townships 58, range 9, west of the 4th Meridian. Repairs.

North of St. Paul to Lac Ste. Vincent. Grading and filling.

West of Cyr Lake, section 6, township 57, range 10, west of the 4th Meridian. Grading.

Between Rife Post Office to bridge section 14, township 61, range 5, west of the 4th Meridian. Improving.

North of Clarkville, township 59, range 11, west of the 4th Meridian. Grading.

Road to St. Paul from north side and east of Clarkville. Improving.

South of Drysdale Lake, sections 25 and 26, 23 and 26, township 58, range 9, west of the 4th Meridian. Grading.

East of Elk Point, sections 4 and 5, township 57, range 6, west of the 4th Meridian. Improving.

Southeast of Wahstao, section 26, township 58, range 15, west of the 4th Meridian. Improving.

North of Shandro, sections 10 and 11, 14 and 15, township 58, range 15, west of the 4th Meridian. Improving.

East of Moose Creek, southeast quarter of section 26, township 56, range 5, west of the 4th Meridian. Grading and side hill cut.

Frog Lake to Beaver River and Cold Lake. Grading.

Northeast of Wahstao, sections 1 and 12, township 59, range 15, west of the 4th Meridian. Improving.

From Veillette to Plain Creek, sections 15 and 16, township 59, range 13, west of the 4th Meridian. Grading.

East of Sinking Lake, through sections 28, 34, 35 and 36, township 59, range 7, west of the 4th Meridian. Grading.

South of Breland Lake, sections 23 and 24, 25 and 26, township 58, range 9, west of the 4th Meridian. Improving.

Road from Medicine Lodge to Grande Prairie. Opening.

From Edson to Grande Prairie. Grading and improving.

Old Klondyke trail, township 61, range 5, west of the 5th Meridian. Clearing and grading.

From Clyde to Morinville, sections 3 and 4, 9 and 10, 15 and 16, township 59, range 25, west of the 4th Meridian. Grading.

From Paddle River to Clyde Railway, townships 59 and 60, ranges 1 and 2, west of the 5th Meridian. Corduroying.

East of Dusseldorf, sections 3 and 6, 31 and 34, townships 59 and 60, ranges 2 and 3, west of the 5th Meridian. Corduroying and grubbing.

Between Athabasca Hill and Whitecourt. Grading.

South of Manola, sections 3 and 34, 6 and 31, township 58 and 59, range 2, west of the 5th Meridian. Grading.

From Belvedere to Sion and Seymour Post Office, sections 1 and 36, townships 56 and 57, range 2, west of the 5th Meridian. Improving.

Between Belvedere and Edmonton, sections 1 and 36, 2 and 35, townships 56 and 57, range 1, west of the 5th Meridian. Grading.

From Lac La Nonne to Edmonton, sections 10 and 15, 9 and 16, township 57, range 2, west of the 5th Meridian. Clearing and grading.

From Belvedere to Edmonton, sections 22 and 27, 27 and 28, township 57, range 2, west of the 5th Meridian. Grading.

East of Belvedere, sections 6 and 31, townships 57 and 58, range 2, west of the 5th Meridian. Building small bridge.

From Seymour to Belvedere. Repairs.

North of Edson, sections 11 and 12, township 60, range 26, west of the 4th Meridian. Brushing, clearing and culvert.

On Lunnford-Heatonmoor trail, sections 3 and 4, 9 and 10, 15 and 16, township 58, range 2, west of the 5th Meridian. Grading.

Between Lunnford and Paddle River Post Office, sections 11 and 14, township 59, range 3, west of the 5th Meridian.

Between Belvedere and Lawton, sections 9 and 16, 8 and 17, township 58, range 3, west of the 5th Meridian. Grading.

Between Mosside and Belvedere trail, sections 13 and 18, 19 and 24, township 58, ranges 3 and 4, west of the 5th Meridian. Corduroying and grading.

On 5th Meridian, sections 24 and 29, township 58, range 27 and 1, 4th and 5th Meridian. Corduroying.

On range line townships 55 and 56, ranges 1 and 2, west of the 5th Meridian. Grubbing.

From Stoney Creek to Sunniebend Post Office, township 62, ranges 25 to 27, 4th and 5th Meridian. Improvements.

Mosside and Peavine trail, sections 31 to 35, township 58, range 5, west of the 5th Meridian. Grading.

Lunnford to Belvedere, sections 25 and 26, 35 and 36, townships 58, range 3, west of the 5th Meridian. Improving.

Northwest of Belvedere, sections 17 and 18, township 58, range 3, west of the 5th Meridian. Corduroy and brushing.

From Dunvegan to north side of River. Improving.

From Peace River side of crossing and Peace River Landing Settlement. Grading.

Saddle Mountain and Beaver Dam road. Stumping.

From Cold Springs to Peace River. Grading.

North of Peace River. Improving.

East of Grande Prairie. Grading and improving.

Southwest of Yarrow, section 25, township 4, range 29, west of the 4th Meridian. Building subway.

Calgary-Edmonton trail. Improving.

South of Ponoka, sections 3 and 33, townships 42 and 43, range 25, west of the 4th Meridian. Clearing and grubbing.

North of Ponoka, sections 10 and 11, township 43, range 25, west of the 4th Meridian. Grading.

Sections 12 and 13, township 43, range 3, west of the 5th Meridian. Ditching and grading.

From Ponoka to Battle Lake, township 43, range 23, west of the 4th Meridian. Improving.

Northwest of Earlville, sections 32 and 33, township 42, range 24, west of the 4th Meridian. Grading and ditching.

Between Ponoka and Blindman, section 8 and 17, township 43, range 27, west of the 4th Meridian. Reducing hill.

Canyon and west to Blindman River, north-east quarter of section 7, township 43, range 2, west of the 5th Meridian. Grading.

Boundary line sections 6 and 31, townships 41 and 42, ranges 2 to 4, west of the 5th Meridian. Improving.

Near Asher, section 11, township 43, range 23, west of the 4th Meridian. Grading and filling.

From Buckhorn to Homeglen. Grading and improving.

West of Chesterwold, sections 19 and 24, township 44, ranges 27 and 28, west of the 4th Meridian. Covering muskeg and grading.

East of Ferrybank, sections 4 and 33, townships 43 and 44, range 26, west of the 4th Meridian. Grading and clearing.

From Ponoka to Asylum, sections 29 and 32, township 42, range 25, west of the 4th Meridian. Improving.

From Homeglen to Springdale, sections 19 and 30, 20 and 29, township 44, range 1, west of the 5th Meridian. Grading and repairing road.

West of Canadian Pacific Railway, sections 8 and 9, 16 and 17, township 44, range 25, west of the 4th Meridian. Improving.

North-west of Canadian Pacific Railway, sections 26 and 35, township 43, range 26, west of the 4th Meridian. Grading, brushing and corduroying.

West of Asher, sections 15 to 18, township 43, range 23, west of the 4th Meridian. Grading and filling.

From Red Deer to Sylvan Lake. Improving.

On Burnt Lake Road. Using split log drag.

Correction line from Sylvan Lake, east. Culverts and grading.

From Red Deer to Evarts, section 8, township 38, range 28, west of the 4th Meridian. Grading and improving.

Road to Evarts, sections 9 and 10, 15 and 16, township 38, range 2, west of the 5th Meridian. Covering corduroy.

From Red Deer to Content. Using split log drag, building four culverts and grading.

East of Red Deer. Repairs.

On correction line, sections 31 and 1, townships 38 and 39, range 2, and 5, west of the 5th Meridian. Clearing and side hill work.

On correction line, sections 6 and 31, townships 38 and 39, ranges 4 west of the 5th Meridian. Building culverts.

South-west of Evarts, sections 34 and 35, township 37, range 3, west of the 5th Meridian. Grading and brushing slough.

West half of hill over divide to Bremner Crossing, between sections 9 and 16, township 38, range 26, west of the 4th Meridian. Grading.

From Content to Trenville. Improving.

At Horseguard River, townships 38 and 39, ranges 4 and 5, west of the 5th Meridian. Clearing road, and side hill work.

Between Leslieville and Rocky Mountain House. Improving.

Near Muskeg Lake, townships 37 and 38, ranges 7 and 8, west of the 5th Meridian. Improving.

North of Coalbanks, sections 23 and 26, township 38, range 23, west of the 4th Meridian. Grading.

Near Eckville, south-west quarter of section 27, township 39, range 3, west of the 5th Meridian. Subway.

From Hillsdown to Pine Lake, township 37, range 25, west of the 4th Meridian. Repairs.

From Frank to Lille. Building culverts and moving rocks.

North of Canadian Pacific Railway, sections 30 and 31, township 7, range 3, west of the 5th Meridian. Grading, culverts and improving.

Between Blairmore and Coleman, section 9, township 8, range 5, west of the 5th Meridian. Repairing washout.

North of Villeneuve, sections 18 and 19, township 54, range 26, west of the 4th Meridian. Grading and improving.

Between Morinville and Indian Reservation, township 56, range 27, west of the 4th Meridian. Improving.

North of Ray, sections 2 and 3, townships 54 and 55, range 25, west of the 4th Meridian. Grading and filling.

North of Riviere Qui Barre, sections 17 and 18, 19 and 20, township 57, range 26, west of the 4th Meridian. Improving.

West of Morinville, sections 6 and 31, townships 55 and 56, range 26, west of the 4th Meridian. Grading and repairing.

East of Riviere Qui Barre, sections 36 and 31, 25 and 30, township 55, ranges 25 and 26, west of the 4th Meridian. Grading.

From St. Albert to Morinville. Improving.

West of Hudson's Bay Co. Reserve, sections 13 and 14, township 54, range 26, west of the 4th Meridian. Grading.

Between St. Emile and St. Albert. Improving.

Riviere Qui Barre ditch. Finishing.

North of Ray, sections 5 and 31, 4 and 32, townships 54 and 55, range 25, west of the 4th Meridian. Grading.

From St. Emile to Morinville. Improving.

On base line south of Independence. Grading and improving.

South-west of Egg Lake, sections 35 and 26, township 56, range 26, west of the 4th Meridian. Improving.

East of Manawan Lake, township 57, range 25, west of the 4th Meridian. Grading.

East of Manawan Lake, sections 11 and 14, township 57, range 25, west of the 4th Meridian. Improving.

North of Manawan Lake, township 57, range 25, west of the 4th Meridian. Grading and repairing.

North of Legal, sections 14 and 15, township 58, range 25, west of the 4th Meridian. Culverts and grading.

North east of Legal, sections 20 and 21, township 58, range 24, west of the 4th Meridian. Improving.

East of Legal, sections 29 and 20, township 57, range 24, west of the 4th Meridian. Grading.

East of Legal, sections 23 and 26, township 57, range 24, west of the 4th Meridian. Improving.

North-east of Legal, sections 21 and 22, township 58, range 24, west of the 4th Meridian. Grading.

South of Villeneuve, sections 5 and 6, township 54, range 26, west of the 4th Meridian. Improving.

South-east quarter of section 16, township 54, range 26, west of the 4th Meridian. Building subway.

South-west of Little Manawan Lake, sections 13 and 14, township 56, range 25, west of the 4th Meridian. Repairing.

East of St. Albert, section 3, township 54, range 25, west of the 4th Meridian. Corduroy, grubbing and clearing.

North of Legal, townships 57 and 58, range 24, west of the 4th Meridian. Improving.

On Iron Creek, section 24, township 45, range 14, west of the 4th Meridian. Building subway.

North of Grainland, sections 9 and 10, 3 and 4, township 42, range 14, west of the 4th Meridian. Grading and repairing road.

North-west of Jackson Coulee, township 45, range 11, west of the 4th Meridian. Improving.

Between Killam and Battle River, sections 20 and 21, township 43, range 13, west of the 4th Meridian. Grading.

From Sedgewick south of Battle River between sections 16 and 17, township 43, range 12, west of the 4th Meridian. Improving.

From Sedgewick to Battle River, between sections 20 and 21, township 41, range 12, west of the 4th Meridian. Corduroying.

Around Little Flag Lake, section 28, township 43, range 11, west of the 4th Meridian. Grading and improving.

Southeast of Lougheed, section 3, township 43, range 11, west of the 4th Meridian. Improving.

From Lougheed to Hardisty, township 43, ranges 10 and 11, west of the 4th Meridian. Grading.

Road east of Wavy Lake, sections 25 and 30, township 44, ranges 14 and 15, west of the 4th Meridian. Grading and culverts.

Near Council bridge between sections 27 and 28, township 44, range 11, west of the 4th Meridian. Grading.

North of Haneyville, township 37, range 11, west of the 4th Meridian. Improving.

From Athabasca Lake to Lac Baptiste. Grading and improving.

North from Athabasca Landing. Improving.

South of Athabasca Landing. Improving.

South-west from Athabasca Landing. Grading.

On Victoria Trail. Repairing culverts.

East of Maybridge. Corduroying.

Between Namao and Lamoureaux, townships 54 and 55, ranges 23 and 24, west of the 4th Meridian. Grading.

South of River Redwater, section 4, township 58, range 22, west of the 4th Meridian. Grading.

West of Namao, sections 5 and 8, township 55, range 24, west of the 4th Meridian. Fixing slough and hill.

South of Waugh, sections 7 and 18, township 58, range 23, west of the 4th Meridian. Repairs to hill.

From Athabasca Landing to Lac La Biche. Improving.

North of Maybridge, sections 4 and 33, townships 57 and 58, range 22, west of the 4th Meridian. Grading.

From New Bridge to Sturgeon River road, township 56, range 22, west of the 4th Meridian. Repairs.

South of Waugh, sections 20 and 29, township 58, range 23, west of the 4th Meridian. Repairing corduroy.

East of Pine Creek, townships 58 and 59, range 18, west of the 4th Meridian. Improving.

North of Battenberg, sections 20 and 29, township 56, range 23, west of the 4th Meridian. Grading.

Northwest of Lake Jolicoeur, sections 7 and 12, township 61, ranges 23 and 24, west of the 4th Meridian. Improving.

North of Excelsior, sections 3 and 4, 8 and 9, township 56, range 24, west of the 4th Meridian. Ditching.

Southwest of Smoky Lake, township 59, ranges 18 and 19, west of the 4th Meridian. Grading and improving.

From Strathcona to Cooking Lake. Improving.

Dowler Hill. Repairs.

North of Irvine Lake, sections 9 and 16, township 51, range 23, west of the 4th Meridian. Grading.

North of Strathcona, sections 25 and 36, township 52, range 24, west of the 4th Meridian. Improving.

North of Mill Creek, sections 19 and 20, township 52, range 23, west of the 4th Meridian. Grading.

East of Clover Bar, sections 12 and 13, township 53, range 21, west of the 4th Meridian. Corduroying.

On range line to Uncas Station, sections 19 and 30, 20 and 29, township 52, ranges 21 and 22, west of the 4th Meridian. Grading and improving.

South of Grand Trunk Railway, sections 7 and 8, 8 and 17, township 51, range 20, west of the 4th Meridian. Corduroying, grading and five culverts.

From Strathcona to Cooking Lake, sections 12 and 13, township 51, range 22, west of the 4th Meridian. Corduroy grading and culverts.

West of Fretton Lake, sections 21 and 22, township 51, range 22, west of the 4th Meridian. Grading.

Southeast of Coppice Hill, sections 13 and 14, township 53, range 21, west of the 4th Meridian. Corduroy.

West of Erskine, section 34, township 39, range 21, west of the 4th Meridian. Wood culvert and drain.

North of Buffalo Lake, townships 19 and 20. Grading.

East of Stettler, sections 29 and 30, township 38, range 19, west of the 4th Meridian. Grading slough four miles east.

West of Foreman, section 36, township 40, range 16, west of the 4th Meridian. Clearing, grubbing, grading and culverts.

Across Shooting Lake Narrows. Grading.

North of Castor. Building approaches.

Between Castor and Halkirk, sections 1 and 36, 31 and 6, townships 37 and 38, ranges 14 and 15, west of the 4th Meridian. Grading to bridge.

Between Golf Lake and Big Valley, north of townships 34 and 35, ranges 19 and 20, west of the 4th Meridian. Improving.

To Dorothy Ferry, township 26, range 17, west of the 4th Meridian. Grading hills.

From Drummheller to Handhills, sections 13 and 14, township 29, range 20, west of the 4th Meridian. Improving.

Grade to ferry, section 2, township 56, range 14, west of the 4th Meridian. Fixing washout.

West of Tofield, townships 50 and 51, range 19, west of the 4th Meridian. Repairs on township line, grubbing and grading.

South of Desjarlais, townships 56 and 57, ranges 13 and 14, west of the 4th Meridian. Grading.

East from Bardo to Riley, sections 5 and 32, townships 49 and 50, ranges 17 and 18, west of the 4th Meridian. Improving.

South of Soda Lake, sections 17 and 18, township 55, range 14, west of the 4th Meridian. Fixing slough.

South of Shandro, sections 26 and 27, township 57, range 15, west of the 4th Meridian. Grading approaches to bridge.

North of Beaver Lake, north of township 52 and 53, range 17, west of the 4th Meridian. Raising grades and grading sloughs.

Between Vegreville and Vermilion, sections 13 and 18, township 50, ranges 12 and 13, west of the 4th Meridian. Side hill grade and culvert.

South of Lavoy, sections 16 and 17, township 51, range 13, west of the 4th Meridian. Grading.

Northwest of Bens Lake, sections 3 and 34, townships 54 and 55, Range 13, west of the 4th Meridian. Improving.

South of Chipman, sections 19 and 20, township 54, range 18, west of the 4th Meridian. Repairing road.

East of Birch Lake Trail, sections 7 and 18, township 53, range 13, west of the 4th Meridian. Clearing, grubbing and grading.

Telephone line from Larcy to Ranfurly, sections 13 and 18, 19 and 24, township 51, ranges 12 and 13, west of the 4th Meridian. Grading.

From Mundare to Holden, sections 33 and 34, township 51, range 16, west of the 4th Meridian. Grading.

North of Long Ridge, sections 19 and 30, township 49, range 15, west of the 4th Meridian. Improving.

North of Sickman Hill, sections 7 and 18, 8 and 17, township 52, range 13, west of the 4th Meridian. Grading sloughs.

East of Chipman, township 54, range 16, west of the 4th Meridian. Improving.

Between Mundare and Riley, west of sections 18 and 19, township 53, range 16, west of the 4th Meridian. Grading.

South of Katchemut Creek, sections 19 and 30, township 50, range 19, west of the 4th Meridian. Filling and grading.

North of Hairy Hill, sections 7 and 12, township 56, ranges 15 and 14, west of the 4th Meridian. Grading.

North-west of Beaver Hills Lake, north of sections 19, 20 and 21, township 52, range 18, west of the 4th Meridian. Improving.

South of Tofield, sections 34 and 35, township 50, range 19, west of the 4th Meridian. Grading.

Northeast of Holden, sections 31 and 32, 29 and 30, township 49, range 15, west of the 4th Meridian. Improving.

Northwest of Warwick, sections 14 and 15, township 54, range 15, west of the 4th Meridian. Grading.

From Desjarlais to Vegreville, sections 25 and 26, township 56, range 14, west of the 4th Meridian. Repairing.

South of Ranfurly, sections 9 and 10, township 51, range 12, west of the 4th Meridian. Grading.

North of Mannville, township 52, ranges 8 and 9, west of the 4th Meridian. Improving.

East of Duvernay, sections 23 and 26, township 55, range 11, west of the 4th Meridian. Grading.

South of Plain Lake, sections 12 and 18, township 53, range 13, west of the 4th Meridian. Clearing and grading.

North of Vermilion River, sections 34 and 35, township 51, range 7, west of the 4th Meridian. Grading and clearing.

From Junkins to Irma. Improving telephone road.

North of Buffalo Coulee, sections 16 and 17, township 47, range 7, west of the 4th Meridian. Improving.

West of Myrnam, sections 15 and 16, township 53, range 9, west of the 4th Meridian. Grading.

On Gratton Coulee, section 34, township 45, range 10, west of the 4th Meridian. Improving.

Section 13, township 46, range 7, west of the 4th Meridian. Grading approaches to bridge.

North of Mannville, sections 31 and 6, townships 50 and 51, range 10, west of the 4th Meridian. Improving.

West of the Musidora, sections 16 and 17, township 54, range 11, west of the 4th Meridian. Grading and culvert.

West of Lanuke, sections 17 and 18, township 54, range 12, west of the 4th Meridian. Repairing.

East of Plain Lake, sections 10 and 11, township 53, range 11, west of the 4th Meridian. Improving.

Between Vermilion and Landville, sections 1 and 2, townships 53 and 54, range 6, west of the 4th Meridian. Grading.

At Gratton Coulee, section 21, township 46, range 11, west of the 4th Meridian. Culvert and grading.

Between Grizzley Bear Coulee and Vermilion, sections 33 and 34, township 49, range 7, west of the 4th Meridian. Grading and culvert.

South of Beauvallon, sections 31 and 36, township 54, ranges 10 and 11, west of the 4th Meridian. Grading and culverts.

At Minburn, sections 1 and 2, township 50, range 10, west of the 4th Meridian. Repairing culvert.

North of Challey, south of sections 1, 2 and 3, townships 52 and 53, ranges 8 and 9, west of the 4th Meridian. Grading.

From Edmonton to Battleford, township 53, ranges 18 and 19, west of the 4th Meridian. Repairing.

South of Canadian Northern Railway, sections 12 and 13, 7 and 18, township 55, ranges 19 and 20, west of the 4th Meridian. Grading.

Southwest of Beaver Hills, sections 9 and 10, township 54, range 21, west of the 4th Meridian. Grading slough.

North of Lamont, sections 16 and 21, township 55, range 19, west of the 4th Meridian. Improving.

North of Beaverhills, sections 15 and 16, township 56, range 20, west of the 4th Meridian. Corduroying.

Near Hunka, sections 19 and 20, township 57, range 16, west of the 4th Meridian. Grading.

Near Andrew, sections 4 and 5, township 56, range 16, west of the 4th Meridian. Improving.

Northeast of Star, sections 31 and 36, 25 and 30, townships 56 and 57, ranges 18 and 19, west of the 4th Meridian. Grading muskeg.

East of Star, sections 6 and 31, 5 and 32, townships 55 and 56, range 18, west of the 4th Meridian. Grading and culverts.

West of Bruderheim, sections 1 and 6, 7 and 12, township 56, ranges 20 and 21, west of the 4th Meridian. Improving.

Approaches to bridge over Saskatchewan River, sections 7 and 12, township 58, ranges 19 and 20, west of the 4th Meridian. Grading.

On Beaver Creek, township 55, range 19, west of the 4th Meridian. Grading hill.

Northeast of Lamont, sections 19 and 30, township 55, range 18, west of the 4th Meridian. Cutting out and grading sloughs.

East of Saskatchewan River, sections 17 and 18, township 57, range 19, west of the 4th Meridian. Grading slough.

East of Lamont, sections 7 and 18, township 55, range 17, west of the 4th Meridian. Fixing sloughs.

East of Lamont, sections 20 and 29, township 55, range 17, west of the 4th Meridian. Corduroy and culvert.

South of Andrew, sections 27 and 28, townships 55 and 56, range 16, west of the 4th Meridian. Culvert and corduroy work.

Southwest of Andrew, sections 2 and 35, townships 55 and 56, range 17, west of the 4th Meridian. Grading.

West of Hunka, sections 7 and 12, township 57, ranges 16 and 17, west of the 4th Meridian. Grading over corduroy.

North of Wesleyan Methodist Mission Claim, sections 8 and 17, township 58, range 16, west of the 4th Meridian. Grading.

On Indian Reserve, township 46, range 28, west of the 4th Meridian. Repairs.

West side of the River, section 7, township 46, range 22, west of the 4th Meridian. Grading.

Near Peace Hills, sections 19 and 30, township 46, ranges 24 and 25, west of the 4th Meridian. Improving.

South of Bigstone, south of section 5, township 47, range 24, west of the 4th Meridian. Culvert and grading.

South of Falun, sections 10 and 11, township 46, range 27, west of the 4th Meridian. Corduroying.

Northwest of Usona, sections 27 and 28, township 45, range 26, west of the 4th Meridian. Improving.

Northwest of Wetaskiwin, sections 21 and 28, township 46, range 24, west of the 4th Meridian. Grading.

East of Bigstone, sections 13 and 24, township 47, range 24, west of the 4th Meridian. Culvert and grading.

East of Bigstone, sections 19 and 24, township 47, ranges 23 and 24, west of the 4th Meridian. Culverts and grading.

South of Wilton Park, sections 11 and 14, 8 and 17, 7 and 18, township 47, range 27, west of the 4th Meridian. Grading.

North of Battle Lake, township 47, range 3, west of the 5th Meridian. Improving.

North of Battle Creek, north-east quarter of section 36, township 46, ranges 2 and 3, west of the 5th Meridian. Grading.

South of Gwynne, sections 11 and 12, township 46, range 23, west of the 4th Meridian. Improving.

West of Wetaskiwin, sections 7 and 8, township 46, range 24, west of the 4th Meridian. Culverts, grading and brushing sloughs.

South of Battle Lake, sections 6 and 1, townships 45 and 46, ranges 1 and 2, west of the 5th Meridian. Brushing across swamp.

South of Bears Lake. Corduroying.

South of Westeros, sections 2 and 35, 1 and 36, townships 45 and 46, range 28, west of the 4th Meridian. Grading.

North of Battle Lake, sections 8 and 17, township 46, range 1, west of the 5th Meridian. Grading and culverts.

North of Cormier Lake, sections 29 and 30, township 47, range 23, west of the 4th Meridian. Improving.

South of Yeoford, sections 1 and 2, township 46, range 2, west of the 5th Meridian. Culvert and grading.

Northwest of Wetaskiwin, sections 21 and 22, township 46, range 24, west of the 4th Meridian. Grading and culverts.

ARCHITECTURAL BRANCH

Staff.....	{	Architect
	{	Eight draughtsmen
	{	Clerk
	{	Stenographer
	{	Messenger

Working together with the Structural Branch of this department, the Architectural Branch has continued to make, during the year, necessary working drawings and details, specifications and estimates in connection with the work under construction and uncompleted at the end of the year 1910, viz.: Parliament Buildings and Court House, Edmonton, Hospital for the Acute Insane at Ponoka, and the Jail at Lethbridge.

In addition to the above the staff prepared the following drawings:

Drawings for new work, which was started and completed during the year, viz.: Cottages and stables in connection with the jail at Lethbridge, and cottages and stables in connection with the asylum at Ponoka.

Drawings for new work which has been started, but remains uncompleted at the first of the year 1912, are as follows: Dormitory Building at Ponoka Asylum, Second Dormitory at the University of Alberta, Court House at Calgary, Government House at Edmonton.

A full report of all buildings under construction at the end of the year 1910 as to their general descriptions, dimensions, construction, appearance and uses can be found in previous reports of the Department of Public Works.

THE PARLIAMENT BUILDING, EDMONTON.

The draughting work in connection with the Parliament Buildings consisted of making detail drawing of stonework and of the carvings on the external wall, also details of the inside trim and finishing of the building.

COURT HOUSE, EDMONTON.

The draughting work in connection with this building consisted principally of making working drawings of interior woodwork, plastering and finishing.

GOVERNMENT HOUSE, EDMONTON.

The draughting work in connection with this building consisted of foundation plans, floor plans, details of stone work, sections and elevations; specifications and estimates were prepared and everything put in readiness for the work of construction which will be undertaken in 1912.

HOSPITAL FOR THE ACUTE INSANE, PONOKA.

Owing to the large number of patients requiring admission to this institution it was found necessary to construct a Dormitory Building, and the required drawings were prepared. These consisted of floor plans, details, elevations and sections.

The necessary plans and drawings were made for a cottage for the resident medical superintendent. Drawings were also made for a cottage for the Bursar.

Stables being required in the equipment of the hospital, the necessary plans and drawings were prepared.

Specifications and estimates were prepared and the Structural Branch supplied with all details.

JAIL BUILDINGS, LETHBRIDGE.

The draughting work in connection with the Administration Building consisted principally of a few finishing drawings of interior work. Additional buildings being required, the necessary plans and drawings were made for a house for the warden and cottages for the deputy warden, the bursar and the engineer. Plans were also made for the stables required in connection with the jail.

Details and specifications were prepared for the Structural Branch as required.

BUILDING CONSTRUCTION

SIR,—I have the honour to report that during the past year the construction work left unfinished at the end of the year 1910 has been carried forward towards completion. Considerable new work has been undertaken, and a detailed statement of the progress made in each case will be given.

Acting under your instructions, the several steel bridges required in the province were erected and a detailed description of these structures is to be found in that part of your report dealing with the construction of bridges.

PARLIAMENT BUILDINGS.

Masonry work on these buildings was carried forward during the year, and the exterior walls were completed with the exception of the main dome.

The legislative wing of the building was completed in time to permit the Legislature to hold its regular session in the Assembly Hall.

The Provincial Library was moved into its permanent home in this wing in November.

The concrete floors were laid, the partitions erected and the plastering completed in the eastern wing. In the western wing of the building part of the cement floors were laid.

During the season the power house for the supplying of light, heat and ventilation to the Parliament Buildings was erected and equipped.

An ornamental steel bridge was built over Saskatchewan Avenue at the Seventh Street entrance to the Parliament Buildings grounds. This bridge consists of a three-hinged arch having an 81 ft. span with a clear roadway of thirty feet and two 6 ft. sidewalks. It is erected on concrete abutments and will be provided with cement floor and sidewalks.

COURT HOUSE, EDMONTON.

The masonry work on the Court House was completed and the building roofed in so that the work on the interior finish could proceed during the winter.

It is expected that the building will be finished and ready for occupation early in 1912. A heating plant was built and put in operation in 1911.

GOVERNMENT HOUSE, EDMONTON.

Excavation was made and cement footings were put for the new Government House at Edmonton in 1911. A considerable quantity of material was assembled so that the work of construction can be proceeded with as soon as the season of 1912 is open.

PONOKA ASYLUM.

This building was completed and opened in July, 1911, and was taken over to be administered by the Department of the Provincial Secretary.

In August it was found necessary to start the construction of a dormitory building to accommodate the large number of patients who require admission to the institution, and it is expected that the work will be completed early in the season of 1912.

This building is 143 ft. 8 in. long and 61 ft. wide, with an extension of 19 ft. 2 in. by 23 ft. 8 in. The footings and basement walls are of concrete. The first and second storey walls are of red brick trimmed with sandstone. The roof is sloping and covered with shingles. There will be four storeys, including the basement, in which will be located the work and recreation rooms. The first and second storey will contain day rooms and dormitories for the patients, and on each floor there will be especially prepared rooms for those who are considered dangerous. The top storey will provide accommodation for the farm hands and for the staff employed in the power house.

A cottage was erected as a residence for the medical superintendent, and consisted of a six-roomed building with a cement basement. It is built of red brick with shingled upper storey.

A cottage was erected as a residence for the bursar, and is similar in construction to the one provided for the medical superintendent.

A large barn and stables were also erected to provide accommodation for the stock employed on the farm.

LETHBRIDGE JAIL.

This building was completed in August, 1911, and taken over by the Department of the Provincial Secretary. The work which was done during the year consisted of completing the interior finish.

Work was also started on a house for the warden and cottages for the deputy warden, bursar and engineer were built. These consisted of six-roomed buildings with cement foundations, and were built of red brick with shingled upper storey.

Suitable stables were erected for the stock used for the administration of the jail.

SURVEYS BRANCH

EDMONTON, December 31, 1911.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
 Edmonton, Alta.

SIR,—I have the honour to submit the following report regarding the work of the Surveys Branch of the Department of Public Works for the year 1911.

The past season has, on account of frequent rainfall, been an unfavourable one for survey work, but I am pleased to say that in spite of delays through bad weather a large amount of work has been done; and although it has always been a serious problem to keep pace with the growing demands there are this year fewer uncompleted surveys to carry forward to next year than there were at the end of 1910.

The work in the office has increased considerably in connection with the examination and approval of plans of townsite subdivisions, and in connection with these more comprehensive regulations appear desirable.

The work of the branch has been summarized as follows:

Surveys required and brought forward from 1910	625
Surveys asked for during 1911	545
Number of surveys and examinations made	669
Number of surveys found to be unnecessary on examination	57
Number of surveys made by District Surveyors without instructions	50
Number of surveys not completed and carried forward to 1912 list	563
Plans prepared and filed in the Land Titles Office	369
Certificates of Titles received for roads	373
Certificates of Titles received for building sites	2
Transfers issued covering roads no longer required	145
Amount paid as compensation for right-of-way, etc.	\$21,069.40

LEASE OF ROAD ALLOWANCES.

Number of new applications for lease of road allowances	37
Number of applications granted	17
Number of applications not granted	20
Number of leases issued during 1910 including free leases issued as compensation for surveyed roads	182
Amount received as rental for leased roadways	\$553.00

Full reports of work done by each District Surveyor follows.

I have the honour to be, Sir,

Your obedient servant,

L. C. CHARLESWORTH,
Director of Surveys.

MEDICINE HAT, December 31, 1911.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit the following report with regard to the work performed by me during the past season in the Public Works District of Medicine Hat, and Olds.

The greater part of the work consisted of surveys of road diversions, new roads, examinations and reports.

Below is given a list of surveys and examinations, made in the order of instructions received.

ROAD DIVERSION SURVEYS.

Diversion from road allowance, S. E. quarter section 20-12-3-4.
 Diversion from road allowance, Townships 13/14, 15/16 and 17-R.1, 2, and 3-W.4.
 Diversion from road allowance, Sections 34/35-10-3-4.
 Diversion from road allowance, Sections 11/2-9-5-4.
 Diversion from road allowance, Sections 28/33-10-6-4.
 Diversion from road allowance, N. W. quarter section 17-10-7-4.
 Diversion from road allowance, S.E. quarter section 25-9-8-4.
 Diversion from road allowance, sections 2/3-10-7-4.
 Diversion from road allowance, N.E. quarter section 13-9-8-4 and N.W. quarter section 18-9-7-4.
 Diversion from road allowance, N.W. quarter section 7-8-7-4.
 Diversion from road allowance, N.E. quarter section 11-7-3-4.
 Diversion from road allowance, S.E. quarter section 25-7-3-4 and S.W. quarter section 30-7-2-4.
 Diversion from road allowance, north half of section 11-9-3-4. Check survey.
 Diversion from road allowance, townships 12/13-1-4.
 Diversion from road allowance, S.E. quarter section 33-10-7-4.
 Diversion from road allowance, N.E. quarter section 36-10-9-4.
 Diversion from road allowance, N.W. quarter section 36-10-8-4.
 Diversion from south half section 1-10-1-4. Completion of pits.

EXAMINATIONS AND REPORTS.

Examination and report of proposed road in S.E. quarter section 5-11-8-4 at Whitla.
 Examination and report of proposed road along south side of C.P.R. in townships 13/14-7-4.
 Examination of proposed road from Medicine Hat to Ansley Coal Mines, Tp. 12-6-4.
 Examination and report of proposed road in secs. 13/14, 23/24, Tp. 9-4-4.
 Examination and report of proposed road in secs. 10/15, Tp. 10-3-4.
 Examination of road conditions in S.W. quarter section 14-12-6-4.
 Examination and report of proposed road in sections 28-29, Tp. 12-5-4.
 Examination and report of proposed road, along blind line, north of sections 15, 16 and 17, township 11-9-4.
 Examination of proposed road division in N.W. quarter sec. 30-11-1-4.

SURVEYS OF NEW ROADS.

Change of new road along blind line, secs. 25, 26, 27, Tp. 12-5-4, and north of sec. 30-12-4-4.
 Survey of new road through section 31-10-9-4.
 Survey of new road through sections 10, 11, 14, 23 and 26, Tp. 8-1-4.
 Survey of new road through sections 15/16, 20/21 and 30, Tp. 9-6-4, and section 25/36, 26/35, Tp. 9-7-4.

The surveys this year were confined to the Medicine Hat District. Considerable rain fell during the season. The party was disbanded October 25th, earlier this year than former years, owing to the District Surveyor and Engineer being confined to bed with inflammatory rheumatism.

Cross sections were taken for bridge sites, also levels were taken for improving the grades of hills. An endeavour was made to run as easy grades as possible, and at the same time to do as little damage as possible to private property.

Reports in detail were forwarded to the department at the time of examination and survey.

Your obedient servant,

J. A. CARBERT,
District Surveyor and Engineer.

EDMONTON, December 21, 1911.

L. C. CHARLESWORTH, ESQ.,
Director of Surveys,
Edmonton.

SIR,—I beg to submit the following report regarding road surveys in the District of North Alberta during the season of 1911.

The large amount of rainfall during the season delayed the work to a considerable extent, and made the trails in this district very difficult for transportation.

I organized my party and left Edmonton, March 15th, and after making an exploration, for road purposes, of the country south of Lesser Slave Lake, reached Grouard about the first of April.

Since the surveys made in the subdivided portions of this district were done without instructions from the Public Works Department, I found it necessary to make examination of all adjoining road allowances which amounted to thirty-two miles of road allowance in Prairie River, and seventy miles of road allowance in Grande Prairie; sketches of these showing topography thereon, have been handed in to the department.

I attach hereto a list of surveys of road diversions, surveyed roads and changes in roads made during the season.

ROAD DIVERSIONS.

Sections 6 and 7, township 74-6-6.
Sections 1 and 2, township 74-6-6.
S.W. quarter section 1-74-6-6.
N.W. quarter section 34-73-6-6.
S.W. quarter section 9, and N.W. quarter section 4-74-6-6.
N.W. quarter section 24-72-8-6.
S.W. quarter section 26-71-8-6.
East of sections 22 and 15, township 71-8-6.
East of sections 19 and 18, township 72-7-6.
S.E. quarter section 30, 71-5-6.
North half section 23-71-6-6.
N.E. quarter section 10-74-16-5.
S.E. quarter 19 and N.E. quarter section 19-74-17-5.
S.E. quarter section 3-79-5-6.

SURVEYED ROADS.

Blind line north of sections 14 and 15, township 72-8-6.
 Quarter section line across section 13-72-8-6 and section 18-72-7-6.
 Quarter section line across section 36-71-8-6 and section 31-71-7-6.
 Blind line north of sections 1, 2 and 3, township 71-7-6.
 Big Smoky River to Sixth Meridian on Sturgeon Lake trail.
 South of section 18-74-16-5, and quarter section line through section 13-74-17-5.
 Road through River Lots 1 to 5, Shaftsbury Settlement and through Indian Reserve No. 151 E. & F.
 From Shaftsbury Settlement to section 30-82-23-5.
 North of section 21-80-4-6 to Dunvegan.
 Dunvegan to north section 11-79-5-6.
 Road north of Lot 36.
 Road south of Lot 36.
 Saddle Mountain road.

CHANGES IN ROADS.

Through Lot 40, Shaftsbury Settlement.
 Through Grouard.
 Through Lots 41 A and 12 A, Spirit River Settlement.

Your obedient servant,

A. P. C. BELYEA,

District Surveyor and Engineer.

CALGARY, December 27, 1911.

L. C. CHARLESWORTH, Esq.,
Director of Surveys,
 Edmonton.

SIR,—I beg to submit herewith report in connection with survey work in the Calgary and Olds Districts during the season of 1911.

After closing down field operations last season the winter months were occupied in preparing plans of the season's work, and in making several inspection trips.

I organized my party in the spring and took the field on May 27th. The first part of the season was spent in making surveys in the country south of Calgary, and in the middle of August I had completed most of the work in this portion of my district and commenced working north of Calgary. It was impossible this season to complete but a small proportion of the surveys for which instructions have been issued in this part of the Olds District, the territory covered by these instructions being so spread out.

In order to obtain the best results I decided that the best policy was to clean up all work as far as possible in each particular locality. This, of course, results in work asked for this season being completed along with work asked for as far back as 1908, and leaves a considerable number of long outstanding surveys yet to be made, but under present conditions this is unavoidable. Up to November the weather was favourable for field operations, but unfortunately we experienced extremely cold weather during the early part of November, the frost penetrating so deeply into the ground that it was impracticable to continue operations, as pit digging becomes very expensive. I, therefore, pulled my party in on the 23rd of November, and disbanded same. Since this time I

have been engaged on the preparation of plans, reports, etc., in connection with the season's work.

Attached hereto you will find a tabulated list of work performed during the past season.

Your obedient servant,

P. N. JOHNSON,
District Surveyor and Engineer.

NEW ROADS.

New road across sections 9 and 10, township 30-5-5.
Blind line road north of section 1-29-1-5.
New road across section 5-18-2-5.
New road in sections 16 and 17, township 18-2-5.
Blind line road between sections 15 and 22, township 21-3-5.
New road across section 17-20-2-5.

ROAD DIVERSIONS.

Diversion in N.W. quarter of section 34-31-3-5.
Diversion in sections 21 and 22, township 29-1-5.
Diversion in N.E. quarter of section 4 and in S.W. quarter of section 10-31-1-5.
Diversion in N.E. quarter section 10-32-3-5.
Diversion in S.E. quarter of section 13-31-4-5.
Diversions in sections 19, 20 and 30, township 27-28-4.
Diversion in N.W. quarter of section 32-30-3-5.
Diversion in west half of section 23-29-1-5.
Diversion in N.E. quarter of section 10-29-1-5.
Diversion in N.E. quarter of section 20-29-1-5.
Diversion in west half of section 4-31-28-4.
Diversion in N.W. quarter of section 24-29-3-5.
Diversion in sections 20 and 21, township 29-3-5.
Diversion in S.W. quarter of section 18-22-1-5.
Diversion in N.E. quarter of section 22-31-3-5.
Diversion in sections 19 and 20, township 18-2-5.
Diversion in section 9-27-27-4.
Diversion in sections 2 and 3, township 27-27-4.
Diversions in S.W. quarter of section 4-31-28-4, and in N.W. quarter of section 32-30-28-4.
Diversion in west half of section 23-30-29-4.
Diversion between sections 11 and 14, township 28-1-5.
Diversion in sections 32 and 33, township 29-1-5.
Diversion in sections 31 and 32, township 29-1-5.
Diversion in sections 19, 20, 29 and 30, township 19-2-5.
Diversion in sections 15 and 16, township 19-2-5.
Diversion in east half of section 2-19-1-5.
Diversion in N.W. quarter of section 24-19-3-5.
Diversion in north half of section 31-30-28-4.
Diversions in S.E. quarter of section 1-22-3-5 and in N.E. quarter of section 36-21-3-5.
Diversions in sections 32 and 33, township 20-2-5.
Diversion in S.E. quarter of section 15-20-1-5.
Diversion in sections 1 and 2, township 21-2-5.
Diversion in S.W. quarter of section 27-30-29-4.
Diversion in S.W. quarter of section 13-28-29-4.
Diversion in N.W. quarter of section 25-22-3-5.
Diversion in east half of section 1-21-4-5.
Diversion in N.E. quarter of section 15-22-2-5.
Diversion in sections 17 and 18, township 27-28-4.

CHANGES IN SURVEYED ROADS.

Change in diversion in N.W. quarter of section 11-31-1-5.
Change in diversion in S.E. quarter of section 29-29-1-5.
Change in surveyed road in S.E. quarter of section 2-21-4-5.

EXAMINATIONS.

Examination re diversion asked for between sections 8 and 9, township 32-3-5.
 Examination re drainage of slough between sections 29 and 30, township 31-1-5.
 Examination re diversion asked for between sections 10 and 15, township 27-1-5.
 Examination re C. P. I. diversion in sections 18 and 19, township 26-27-4.
 Examination re road to give access to S.W. quarter of section 24-30-1-5.
 Examination re diversion asked for between sections 11 and 12, township 28-29-4.
 Examination of blind line between sections 2 and 11, township 30-29-4.
 Examination re diversion asked for west of section 6-23-1-5 (Sarcee Reserve).
 Examination of blind line north of sections 14, 15 and 16, township 31-4-5.
 Examination of old trail across township 18-3-5.
 Examination re diversion asked for in S.E. and S.W. quarters, section 3-31-1-5.
 Examination re diversion asked for north of sections 7 and 12, township 15, ranges 24/25-4.
 Examination re diversion asked for east of sections 25 and 36, township 19-2-5.
 Examination of correction line north of townships 30, ranges 27, 28 and 29-4.
 Examination re railway crossings at Acme.
 Examination re diversion asked for in S.W. quarter of section 24-30-29-4.
 Examination re proposed new road along north boundary of S.W. quarter of section 35-28-1-5.
 Examination re new road asked for across sections 18 and 19, township 22-1-5.
 Examination re diversion asked for east of sections 26 and 35, township 19-2-5.
 Examination of C. P. I. proposed diversion in east half of section 18-28-27-4.
 Examination re surveyed road in township 27, ranges 26 and 25-4.
 Examination re changes asked for in surveyed road in township 16, ranges 29 and 30-4.
 Examination re roads leading into townsite of Drumheller.

MISCELLANEOUS.

Staking out building sites for Experimental Farm at Medicine Hat.
 Staking out building sites for Experimental Farm at Claresholm.
 Staking out building sites for Experimental Farm at Olds.
 Examination re Calgary Power Co.'s transmission line east and west of the town of Cochrane.

SUBDIVISIONS.

Examination re Bowness subdivision, Calgary.
 Examination re subdivisions in the east half of section 14-24-29-4.

LACOMBE, December 31, 1911.

L. C. CHARLESWORTH, D.L.S.
Director of Surveys,
 Edmonton.

SIR,—I have the honour to submit the following report in connection with the work performed by myself and party, in the Lacombe Public Works District, during the past season, and I attach hereto a schedule showing the work done, and classified as

"New Roads," "Road Diversions," "Examinations," "Mounds Dug," and "Miscellaneous," and Checks.

The early part of the season was spent in making a number of examinations and checks, and preparing the returns of the previous season's surveys.

About the middle of April, I organized my party and took the field. I commenced operations in the eastern part of my district along the new lines of railway, and after surveying a number of roads to give access to the new towns which are springing up I moved my outfit to the west. I completed all the surveys in this portion, except those to the south of Pigeon Lake. From here I moved east of Red Deer, made a number of surveys and examinations, and finally closing up field operations about the middle of December.

On account of so much rain, the season on a whole was very unfavourable for field work, but having a competent staff, and a number of teams in camp, I was able to accomplish much, as the attached schedule will show. I might say that I covered the whole of my district, and have left over only a very few surveys, which will be attended to early next season.

Your obedient servant,

A. S. STEWART,
District Surveyor and Engineer.

NEW ROADS.

- New road to school, along blind line between sections 5/8, township 44-22-4.
- New road change in old C. & E. trail at Ponoka, in sections 4/9-43-25-4.
- New road along quarter line through sections 22/23-41-21-4.
- New road across sections 25/36-41-2-5, at Forshee.
- New road in section 31-42-9-4 and change in sections 30/31, township 42-9-4.
- New road along blind line between sections 5/8-43-19-4.
- New road change between sections 4/9, 43-19-4.
- New road change at Erskine, in section 6-39-20-4.
- New road change in N.W. quarter section 29-41-21-4.
- New road along blind line between sections 13/24-37-6-5; between sections 18/19-37-5-5, and along quarter line through section 16-37-5-5.
- New road in sections 10/11-40-6-5.
- New road along blind line between fractional sections 15/22, township 47-28-4.
- New road along blind line north of sections 26 to 30, township 42-1-5.
- New road along blind line between sections 5/8-41-2-5.
- New road along blind line between sections 16/21 and 17/20, township 42-25-4.
- New road along blind line between sections 17/20-39-4-5.
- New road along blind line between sections 13/24 and 14/23, township 40-19-4.
- New road along blind line between sections 18/19-45-26-4.
- New road in sections 18/19/29/30/31/32/5, townships 39/40, range 15-4.
- New road through sections 25/36-44-26-4.
- New road through centre of section 36-41-22; N.W. quarter 31-41-21, and S.W. quarter section 5-42-21-4.
- New road along blind line north of sections 2/1/6/5, township 43-20/19-4.
- New road through centre of section 36-40-27-4.

ROAD DIVERSIONS.

Diversion, change in S.W. quarter section 29-41-26-4.
 Diversion in S. half section 3-38-26-4.
 Diversion in S.W. quarter section 32-40-19-4.
 Diversion in S.E. quarter section 2-45-21-4.
 Diversion N.E. quarter section 8-35-28-4.
 Diversion in N.E. 16 and S.E. 21-41-16-4.
 Diversion in N.E. 9 and S.E. 16-38-2-5.
 Diversion change in S.W. 14 and N.W. 11-39-23-4.
 Diversion change in sections 7 / 18 / 13, 41, 22 / 23-4.
 Diversion change in S.W. 18-38-12 and S.E. 13-38-22-4.
 Diversion in S.W. 11-39-15-4.
 Diversion in S. half section 2-40-15-4.
 Diversion in S.E. 4-40-19-4.
 Diversion in N. half section 23-40-24-4.
 Diversion on south boundary section 25, and east boundary sections
 13 / 24-41-20-4.
 Diversion change in N.E. 32 and N.W. 33-41-26-4.
 Diversion in S.E. 21-41-18-4.
 Diversion in N.E. 33 and W. half 27-41-26-4.
 Diversion in N.W. 34 and N.E. 33-41-19-4 and S.E. 4-42-19-4.
 Diversion in west half section 6-41-19-4.
 Diversion change in S.E. 25-40-24-4.
 Diversion in N.W. 20-46-18-4.
 Diversion in west half section 27-41-27-4.
 Diversion between sections 9 / 16, and in S.E. 17 and N.E. 8-45-19-4.
 Diversion in S.E. 9-40-1-5.
 Diversion north of sections 7 / 12, 44, 16 / 17, 4 and blind line between
 sections 13 / 24, 44-17-4.
 Diversion in south half section 29-44-17-4.
 Diversion in S.W. quarter section 15-44-17-4.
 Diversion in S.E. quarter section 25 and S.E. quarter section 26-41-22-4.
 Diversion in sections 10 / 11 / 14 / 23-44-3-5.
 Diversion in N.E. quarter section 11 and S.E. quarter section 14-41-26-4.
 Diversion in N.E. quarter section 33-41-2-5.
 Diversion in S.W. quarter section 3 and S.E. quarter section 4-42-2-5.
 Diversion in S.W. quarter section 3-42-2-5.
 Diversion in N.W. quarter section 31-39-23; S.W. quarter section
 6-40-23; S.E. quarter section 1-40-24 and N.E. quarter section 36-39-24-4.
 Diversion in E. half section 30 and S.E. quarter section 31-44-27-4.
 Diversion in S.E. 15 N.E. 10 and S.W. 14-41-2-5.
 Diversion in S.E. quarter section 9 and N.E. quarter section 4-46-26-4.
 Diversion in sections 2 / 3-42-4-5 and W. half section 35-41-4-5, and new
 road through sections 2 / 11-42-4-5.
 Diversion in N.E. quarter section 31-42-23-4.
 Diversion in N.W. quarter section 19-42-23-4.
 Diversion between sections 9 / 16-40-15-4.
 Diversion in east half section 31-43-2-5.
 Diversion in S.E. 12-46-22-4 and River Lot 25-46-21-4.
 Diversion in S.W. quarter section 35-44-21-4.
 Diversion in N.E. quarter section 11-43-21-4.
 Diversion in N.E. quarter section 29-44-20-4.
 Diversion in S.E. quarter section 18-44-20-4.
 Diversion in E. quarter section 35-43-1-5.
 Diversion north of sections 20 / 21-44-1-5.
 Diversion in N.E. quarter section 36-41-21-4.
 Diversion in S. half section 13-40-1-5.
 Diversion in N.E. quarter section 19-41-18-4.
 Diversion between sections 1 / 6-41-16 / 17-4.
 Diversion in N.E. quarter section 36-45-24-4.
 Diversion in N.W. quarter section 8-43-23-4.
 Diversion in W. half section 24-42-17-4.
 Diversion in S.W. quarter section 27-41-28-4.
 Diversion in W. half 7; S.E. 18 and S.W. 17-43-22-4.
 Diversion between sections 7 / 8-37-23-4.
 Diversion in W. half section 21-37-24-4.
 Diversion in N.E. 20, N.W. 21-37-23-4.
 Diversion in S. half section 3 and S.W. quarter section 2-42-22-4.
 Diversion in S.E. quarter section 31-39-17-4.

Diversion in N.W. quarter section 20-43-22-4.
 Diversion between sections 35-36-40-16-4.
 Diversion in E. half section 11-40-18-4.
 Diversion in N. half section 22-41-16-4.
 Diversion in S. half section 6-44-2-5.
 Diversion in W. half section 33-44-26-4.
 Diversion in N.W. quarter section 19-38-21-4.
 Diversion between sections 22 / 27-41-23-4.
 Diversion in S.W. quarter section 29-41-18-4.
 Diversion in S.E. quarter section 2-41-25-4.
 Diversion in S.W. quarter section 29-41-22-4.
 Diversion in S.W. quarter section 23-41-21-4.
 Diversion in E. half section 7-43-19-4.
 Diversion in N. half section 32-42-20-4.
 Diversion in N.W. quarter section 28 and S.W. quarter section 33-42-20-4.
 Diversion between sections 31 / 32-42-20-4.
 Diversion in S. half 14, S.W. 13 and N.E. 11-41-19-4.
 Diversion between sections 2 / 3-44-3-5.
 Diversion in N.E. quarter section 35-43-20-4.
 Diversion in N.W. quarter section 32-44-20-4.
 Diversion in S. half section 26-40-2-5.
 Diversion east of sections 23 / 26-40-23-4.

EXAMINATIONS

Examination of Old Rocky Mountain House Trail from Raven in township 36-4-5 to the Mountain House in township 39-7-5.
 Examination between sections 15 / 22-41-24-4.
 Examination of proposed change in sections 5 / 6-39-23-4.
 Examination of proposed change in section 4-39-23-4.
 Examination between sections 4 / 5-38-26-4.
 Examination east of S.E. quarter section 31-41-1-5.
 Examination of blind line between sections 27 / 34 and 28 / 33, township 46-27-4.
 Examination east of section 28-42-26-4.
 Examination in N.E. quarter section 9 and S.E. quarter section 16-38-2-5.
 Examination in S.E. quarter section 16 and S.W. quarter section 15-42-24-4.
 Examination at the N.W. corner section 36-46-18-4.
 Examination of road allowance W. of S.W. 2-39-12-4.
 Examination north of section 23-40-24-4.
 Examination in section 1-48-24-4.
 Examination west of section 35-46-18-4.
 Examination of pits, S. of Secs. 2 / 3 / 4-33-5-5.
 Examination north of section 24-37-24-4.
 Examination north of sections 9 / 10 / 11-41-16-4.
 Examination east of section 26-44-27-4.
 Examination east of sections 23 / 26 / 35-46-18-4.
 Examination in W. half section 27-41-27-4.
 Examination in section 9-40-1-5.
 Examination south of S.E. quarter section 2-43-20-4.
 Examination between sections 10 / 11-44-19-4.
 Examination between sections 12 / 13-44-19-4.
 Examination through township 47-1-5.
 Examination of blind line north of sections 25 / 26 / 27, township 44-28-4.
 Examination of blind line north of sections 27 / 28-39-6-5.
 Examination east of sections 29 / 32-37-25-4.
 Examination between sections 12 / 13-43-21-4.
 Examination between sections 23 / 24-44-21-4.
 Examination in sections 17 / 20 / 29-43-2-5.
 Examination between sections 17 / 18-41-22-4.
 Examination of road allowances adjoining sections 2 / 11, township 41-27-4.
 Examination between sections 25 / 30-44-21 / 20-4.
 Examination between sections 20 / 29-44-27-4.
 Examination north of sections 10 / 11-43-18-4.
 Examination west of Alix, in township 39-23-4.
 Examination between sections 23 / 24-42-16-4.

Examination between sections 8 / 9-46-26-4.
 Examination in section 11-43-27-4.
 Examination between sections 22 / 27-45-20-4.
 Examination between sections 3 / 4-37-22-4.
 Examination east of sections 30 / 31-37-25-4.
 Examination between sections 34 / 35-37-24-4.
 Examination at the N.W. corner section 27-45-22-4.
 Examination between sections 28 / 29-38-1-5.
 Examination between sections 4 / 5-37-22-4.
 Examination between sections 1 / 2-38-24-4.
 Examination north of section 33-37-7-5.
 Examination east of Ohaton, in S.W. 13 and E. half 14-46-19-4.
 Examination between sections 22 / 27-41-22-4.
 Examination west of section 34-39-24-4
 Examination S. of section 5-45-23-4.
 Examination east of section 10-39-24-4.
 Examination in section 36-40-27-4.
 Examination between sections 28 / 29-39-28-4.
 Examination between sections 19 / 20-39-27-4.
 Examination north of section 31-46-25-4.
 Examination north of sections 20 / 21 / 22-42-20-4.
 Examination at Strome, at N.E. quarter section 23-44-15-4.
 Examination of drain between sections 22 / 23-44-20-4.

MOUNDS DUG

Dug pits in S. half section 30 and N.W. quarter section 19-43-23-4.
 Dug pits in section 10-43-25-4.
 Dug pits in section 32-42-25-4.
 Dug pits on south boundary section 9-39-27-4.
 Dug pits across township 46-2-5.
 Dug pits in sections 6 / 7 / 1, township 46-1 / 2-5.
 Dug pits in section 25-40-24-4.
 Dug pits between sections 4 / 5-43-27-4, and changed wooden posts to iron bars.
 Dug pits on blind line south of section 11-41-27-4.
 Dug pits in sections 14 / 23 / 24, township 43-24-4.
 Dug pits across section 11-43-27-4.
 Dug pits in N.W. quarter section 8-43-27-4.
 Dug pits in S.E. quarter section 17-43-27-4.
 Dug pits in S.W. quarter section 13-43-28-4.

MISCELLANEOUS

Set iron bars at the N.E. corner of sections 11 / 12-43-24-4.
 Located sand pit between S.E. quarter section 23 and S.W. quarter section 24, township 42-26-4.
 Surveyed drain in E. half section 36-45-22-4.
 Surveyed drain in N.E. quarter section 12-45-22-4.
 Made cross section of C.P.R. tracks at Bittern Lake, in section 36-46-22-4.
 Made cross section of C.P.R. tracks at Erskine, in section 6-39-20-4.
 Planted iron bar in N.W. quarter section 36-43-20 and in S.W. quarter section 1-44-20-4.
 Staked out drains west of townships 39 / 40-23-4
 Surveyed drain in N.E. quarter 8-43-23-4.

CHECKS

Check in section 17-37-2-5.
 Check through sections 4 / 9 / 10 / 11, township 43-25-4.
 Check in section 30-46-2-5.
 Check in S.W. 14 and N.W. 11, township 39-23-4.
 Check in S.E. 33; S.W. 10; N.E. 4 and N.W. 3, township 33-5-5
 Check in S.E. quarter section 13-38-22-4.
 Check in section 7-46-1-5 and section 1-46-2-5.
 Check in E. half section 11-40-23-4.
 Check in south half section 15-43-2-5.
 Check in section 14-34-5-5.
 Check between sections 25 / 30-44-26 / 27-4.

Check in N.E. quarter section 9-39-3-5.
Check in sections 20 / 29-38-27-4.
Check in E. half section 21-37-25-4.
Check in S.E. quarter section 30-39-21-4.
Check in N.E. quarter section 31-42-23-4.
Check in N. half section 19-39-21-4.
Check in S.E. quarter section 30-39-22-4.
Check in section 11-45-21-4.
Check in S.W. 17-42-18-4.
Check in N.W. quarter section 8-43-23-4.
Check in N.E. quarter section 11-40-18-4.
Check in N.W. quarter section 31-41-21-4.

LETHBRIDGE, December 24, 1911.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

SIR,—I have the honour to submit the following report respecting the work performed by myself and party from the ninth of December, 1910, to the 24th of December, 1911.

Between the 9th of December, 1910, and the 23rd of the same month, my party was finishing some surveys in the vicinity of Mountain Mill, storing the outfit for winter and driving home, where it was disbanded on the 23rd instant.

I obtained a sick leave of absence, and left for the United States on the 17th of December, and returned to my office on the 21st of March, 1911. During the winter months I copied Field Notes and did other light work that was necessary for the information of the Department.

Until April 14th I was occupied with general office work. On that date, I started my party for the Mountain Mill district, and took up the surveys where I had left off in December last. I worked southerly along the foot hills, where the country is rough and covered with brush, clearing up all necessary surveys as I went. After reaching Pine Creek in township 3, range 30, west of the 4th, I turned east and north along the west side of the Waterton River, and at present my party is working in the rolling hills adjoining the east side of the Piegan Indian Reserve.

The demand for surveys and examinations in every part of my district is constantly increasing, and on that account I have not been able to spend much time in camp with my party; but with the help of a careful assistant the work has gone steadily forward, being interfered with only by storm, which I might say has been almost constant. A considerable amount of time has been lost on that account, and in consequence part of the district has been disappointed to some extent by not receiving the attention looked for. However, the people as a whole are reasonable, and realize that the department has their interest at heart, and that they will get attention as soon as I can reach them.

I am pleased to note that the legislature has seen fit to expend \$1,000,000.00 on road building during the coming year, and in conclusion might call attention to the ever-increasing demand for better roads. Settlers are located in nearly every corner (the remotest parts) of my district, and each one is crying for better transportation facilities.

With the advent of the gasoline engine has come a demand for an increased exertion in order that the highways might be put in the best possible condition. I see a possibility, in the not far distant future, when the motor car and traction engine will be called into use to haul trains of cars of produce from the farm to the railways. This condition will alone call for the expenditure of millions of dollars, and it will be gratifying to see the road question kept to the front in the matter of expenditure for public improvement by the Department of Public Works.

Below is a list of surveys and examinations.

Your obedient servant,

R. J. GORDON,
District Surveyor and Engineer.

DIVERSIONS

Diversion into section 2, 3 and 10-6-1-5.
 Diversion into N.W. quarter section 9-4-29-4.
 Diversion into S.W. quarter section 4-6-1-5.
 Diversion into N.W. quarter section 13-6-1-5.
 Diversion into section 34-5-1-5 and section 3-6-1-5.
 Diversion into sections 30 / 31-5-1-5.
 Diversion to the overhead bridge on C. P. R. in the S.E. quarter section 3-9-22-4.
 Diversion into section 31-4-28-4.
 Diversion into N.W. quarter section 33-6-1-5.
 Diversion into sections 19 / 30-5-1-5.
 Diversion into section 25-5-1-5.
 Diversion into N.W. quarter section 22-4-29-4.
 Diversion into N.W. quarter section 29-3-29-4.
 Diversion into N.W. quarter section 22-5-28-4.
 Diversion into section 34-5-30-4.
 Diversion into N.E. quarter section 12-5-20-4.
 Diversion into sections 6 / 7-6-1-5.
 Diversion into section 32-4-29-4 and section 6-5-29-4.
 Diversion into section 27-4-30-4.
 Diversion into section 23-4-30-4.
 Diversion into sections 34 / 35-4-28-4.
 Corner posts set on east boundary sections 25 / 36-3-30-4.
 Diversion of Pincher Creek-Oil City in section 21-3-29-4.
 Diversion into S.E. quarter section 15-6-1-5.
 Diversion into 17, 20 and 21-6-1-5.
 Diversion into section 7-4-29-4.
 Diversion into N.W. quarter section 21-11-22-4.
 Diversion into N.W. quarter section 11-4-17-4.
 Diversion into E. half section 21-3-29-4.
 Diversion into N.W. quarter section 8-3-29-4.
 Diversion into S.W. quarter section 11-4-29-4.
 Diversion into sections 30 / 31-5-28-4.
 Diversion into N.E. quarter section 34-3-29-4.
 Diversion into sections 34 / 35-5-27-4 and section 3-6-27-4.
 Diversion into S.E. quarter section 4-6-30-4.
 Diversion into section 2-5-29-4.
 Diversion into sections 4 / 5-5-29-4.
 Diversion into S.E. quarter section 19-3-29-4.
 Diversion into section 1-4-30-4.

SURVEYS CHECKED

Diversion into S.E. quarter section 25-8-30-4.

SURVEYS CHANGED

Changed from section 10 to section 9-4-30-4.
 Changed from N.E. quarter section 16 to N.W. quarter section 15-4-28-4.

Change in sections 8 / 17-6-1-5.
 Change in section 12-6-2-5.
 Change I.P.P. IX. in section 31-5-1-5.
 Change of road through section 10-9-26-4.
 Change survey through sections 4 / 9-8-29-4.
 Change of survey at Dry Fork between sections 16 / 17-5-28-4.

NEW ROADS

Road along the north boundary N.W. quarter section 16-12-23-4 into the Town of Barons.
 Road from the east boundary of section 10-4-16-4 to the east boundary of section 10-4-17-4 into Warner.
 Road along the quarter section line of section 31-3-29-4.
 Road through section 10-5-30-4.
 Road along blind line north of sections 27, 28 and 29-4-29-4.
 Road between sections 13 and 24-29-4.
 Road south of the S.W. quarter section 23-4-30-4.
 Road through sections 4, 5 and 6-7-26-4.

EXAMINATIONS

For a new road along the blind line north of sections 25, 26, 27, 28, 29 and 30 in township 2, range 12, 13 and 14, west of the 4th Meridian.
 For new road on blind line north of sections 2, 3, 4 and 5, in township 10-23-4 east of Monarch.
 For lease of road allowance between sections 16 / 17-10-24-4.
 Of part of the road allowance east of N.E. quarter section 12-6-2-5 at request of the Presbyterian Church.
 Road allowance between sections 16 / 17-13-2-5, in the case of D. E. Riley's irrigation ditch.
 Road allowance north of sections 23 / 24-5-20-4 for improvements and diversions.
 In connection with proposed road through sections 3 / 10-3-24-4.
 For establishing road through sections 5 / 6-9-22-4.
 For proposed diversion between sections 10 / 15, 9 / 16-6-30-4.
 Road through townships 1, ranges 12, 13 and 14, west 4th into Coutts.
 Old road through section 2-6-1-5.
 For proposed road and bridge in section 29-5-20-4.
 For opening the road allowance north of the N.E. quarter of section 36-4-30-4.
 For survey of new road through section 10-9-26-4.
 Of proposed road from N.E. quarter section 13-5-3-5 to between sections 7 / 18-5-1-5.
 Proposed road through sections 35 / 36-7-17-4.
 Road up Meadow Creek through sections 2, 3, 9 and 10-11-29-4.
 For change of road through N.E. quarter section 17-11-28-4.
 For road diversion in sections 9 / 16-5-20-4.
 For road to crossing on Old Man River north of Brockett.
 For proposed road through sections 2, 11, 15, and 16-10-2-5.
 For information re closing road allowance east of sections 25 / 36-8-2-5.
 For proposed road through sections 4 / 9-10-2-5 and 28 / 33-9-2-5.
 For new road through sections 23 / 24-7-30-4 to steel bridge over Old Man River.
 Proposed road along the blind line east from New Dayton, in township 5, ranges 17 / 18-4.
 With Councillors for new road through sections 23 / 24-7-30-4.
 For proposed change in surveyed road through sections 31-6-29-4 and sections 5, 4 and 3-7-29-4.
 For request for change to avoid a well taken in the surveyed road in the S.W. quarter section 23-6-2-5.
 For private road through S.W. quarter section 35-6-2-5.
 For change in the surveyed road through N.E. quarter section 34-6-2-5.
 For new road from South Fork Bridge to Cowley through S.W. quarter section 2-7-1-5.
 For proposed road diversion between sections 27 / 28, 35; 34, 6-1-5.
 For proposed diversion south of S.E. quarter section 29-6-1-5.
 For proposed road through section 36-7-3-5.
 For proposed diversion east of section 22-3-29-4.
 For proposed diversion between sections 20 / 29, 28 / 29-4-29-4.

For proposed drain north of N.E. quarter section 24-4-29-4.

For proposed diversion east of section 24-4-30-4.

Examination of surveyed road in section 24-7-30-4 for the existing condition of snow on same.

Road allowance between sections 5/6-7-1-5 to determine where water should be drained to.

Proposed diversion between sections 16/17-4-28-4.

Road allowance north of section 22-5-29-4.

DRAINS

Traverse of drain to Lake Halifax in sections 6/7-6-28-4 and sections 1/12-6-29-4.

Traverse of lake and drain on N.E. quarter section 33, N.W. quarter section 34 and S.E. quarter section 3 and S.W. quarter section 4-6-28-4.

VEGREVILLE, Alta, December 31, 1911.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honor to submit the following report of the surveys made and other work done in the Public Works Districts of Vegreville and Wainwright during the past season.

The first part of the year was spent in preparing and completing the returns and plans of the previous season's work.

On April 20th I organized my party at Vegreville and did several jobs in east of Whitford, after which I moved westerly along the Canadian Northern Railway, working in the neighborhood of Mundare and Chipman. Completing the work in this locality, I moved south to the Grand Trunk Pacific Railway and worked easterly along same to Viking; from here I moved south into the Wainwright district, and worked easterly along the Hardisty branch of the Canadian Pacific Railway from Killam to Hardisty. Leaving Hardisty I worked south westerly across country to the Castor branch of Canadian Pacific Railway. Here it was necessary to leave a few jobs stand owing to the receipt of instructions that work was urgently required in and about Provost, to which place I moved over roads almost impassable, occasioned so by the recent and incessant rains.

Considerable work was done between Provost and the eastern boundary of the province. Also both north and south. Completing all the work in this locality, I worked westerly along the railway doing jobs in the neighbourhood of every town until Hardisty was reached. Here considerable work had come up since and after the work I had completed earlier in the year.

Among some of the requests for new work I found jobs asked for which appeared to be entirely too far in advance for the present progress of the country; these, however, were carefully examined and reported on at the time. All other jobs asked for were looked into, and such surveys made as were found necessary. After completing here I worked across country north westerly to Kinsella on the Grand Trunk Pacific Railway, thence easterly along the railway to Wainwright. From here I worked north into the Vegreville district again and cleaned up all the work south of the Canadian Northern Railway. Crossing the railway at Vermilion I did all the required work as far north as Landonville. I then

worked westerly along the north of the railway to Innisfree. Here the weather turned bad and severe, and as I had no more work in the vicinity I moved my outfit to Vegreville, and paid off my men on the 9th of November, after which I made a couple of surveys which were urgently required, one in the vicinity of Irma and one at Acme in the Calgary district. This completed the season's work.

Throughout the Vegreville district I find a substantial system of improvements being carried out. Here the work is mostly that of connecting up the outlying settlements.

In the Wainwright district the work was mostly about the towns adjacent to the railways, though there was considerable outlying work also. The settlers in this district are commencing to fence, thus closing off some of the old trails, which action will occasion considerable new work to be done in the coming year.

The work of the past season consists in the survey of new roads, road diversions, ditches, cross-sections of streams, examination of roads, bridge locations, reports and estimates.

The following is a list of the work done:

NEW ROADS

New road into Riley. (No plan to be made.)
 New road north of section 15, and south of section 21-47-15-4.
 New road north of section 29, and section 30-47-11-4.
 New road into S. half section 17-48-12-4.
 New road north of section 18-44-13-4.
 New road north of section 13-44-14-4.
 New road north of section 16-44-13-4.
 New road across section 15-43-10-4.
 New road north of section 13-43-11-4.
 New road through centre of section 25-44-11-4.
 New road north of section 29-42-11-4.
 New road north of section 25-41-11-4 and north of sections 29 and 30-41-10-4.
 New road north of sections 3 and 4-39-2-4.
 New road through sections 13 and 14-39-3-4, and section 18-39-2-4, and north of sections 15 and 16-39-3-4.
 New road north of sections 13 to 16-39-2-4.
 New road north of sections 16 to 18-39-1-4.
 New road north of sections 13 to 15-39-1-4.
 New road through section 20-39-1-4.
 New road north of section 1-41-8-4.
 New road north of section 6-41-7-4.
 New road north of sections 27 to 30-41-8-4.
 New road north of sections 25 and 26-41-9-4.
 New road north of sections 13 to 18-42-8-4.
 New road north of section 25-42-10-4.
 New road through sections 25 and 36-42-10-4.
 New road through sections 6 and 7-43-9-4.
 New road north of section 28-42-10-4.
 New road through section 34-46-11-4.
 New road through section 16-46-11-4.
 New road north of sections 16, 17, 18 and 13-45-10-4.
 New road through section 26-45-9-4.
 New road through section 25-45-8-4, and section 30-45-7-4.
 New road north of sections 28 and 29-44-6-4.
 New road north of sections 14, 15 and 16-47-7-4.
 New road north of section 18-49-6-4.
 New road south of section 33-50-10-4.
 New road south of section 19-29-25-4.
 New road north of section 13-45-9-4.

ROAD DIVERSIONS

Diversion west of sections 6 and 7-49-17-4.
Diversion into sections 12 and 13-56-15-4.
Diversion into section 32-54-17-4.
Diversion into section 9-54-17-4 (Two diversions).
Diversion south of sections 28 and 29-49-16-4.
Diversion west of section 11-49-16-4.
Diversion east of sections 19 and 30 and north of section 30-48-15-4.
Diversion east of section 3 and west of section 2-49-14-4.
Diversion north of section 29 and south of section 30-47-11-4.
Diversion north of section 33-47-11-4 and south of section 4-48-11-4.
Diversion east of section 8-43-11-4.
Diversion east of section 22-43-11-4.
Diversion east of section 29-44-13-4.
Diversion south of section 3-43-11-4.
Diversion west of section 33-43-10-4.
Diversion north of section 33-43-10-4 (Two diversions).
Diversion north of section 32-43-10-4.
Diversion south of section 4-44-10-4.
Diversion into sections 14, 22 and 23-43-10-4.
Diversion north of section 7 and south of section 18-44-10-4.
Diversion west of section 17-44-10-4.
Diversion east of section 13-43-11-4.
Diversion south of section 17-43-10-4.
Diversion east of section 22-43-10-4.
Diversion east of section 21 and west of section 22-44-11-4.
Diversion east of sections 15 and 22-44-11-4.
Diversion west of section 27-44-11-4.
Diversion north of section 33-44-11-4.
Diversion north of section 35-44-11-4.
Diversion west of section 17-42-11-4.
Diversion west of section 7-41-11-4.
Diversion east of section 13-41-12-4.
Diversion west of sections 18 and 19-41-11-4.
Diversion north of sections 33 and 34-40-12-4.
Diversion south of section 4-41-12-4.
Diversion east of sections 18 and 19-40-12-4.
Diversion south of section 30-40-13-4.
Diversion south of sections 2 and 3-38-13-4.
Diversion south of section 4-38-13-4.
Diversion into sections 24 and 25-39-14-4.
Diversion west of section 24-38-14-4.
Diversion west of section 7-39-13-4.
Diversion east of section 13-39-14-4.
Diversion west of section 25-38-14-4.
Diversion east of section 8-39-2-4.
Diversion east of sections 7 and 18-39-2-4.
Diversion south of section 27-39-2-4.
Diversion east of section 24-39-2-4.
Diversion west of section 19-39-1-4.
Diversion west of section 2-39-1-4.
Diversion north of section 35-38-1-4.
Diversion south of section 2-39-1-4.
Diversion south of section 29-39-1-4.
Diversion into sections 8, 9 and 16-39-1-4.
Diversion north of section 24 and south of section 25-42-9-4.
Diversion east of section 25-42-9-4.
Diversion south of section 5-43-9-4.
Diversion north of section 32-42-9-4.
Diversion west of sections 5 and 8-41-10-4.
Diversion east of sections 11 and 14-42-11-4.
Diversion west of section 24 and across section 25-42-9-4.
Diversion west of section 8 and east of section 7-13-9-4.
Diversion west of section 25-45-11-4.
Diversion into section 21-46-11-4.
Diversion west of section 27 and east of section 28-45-10-4.
Diversion west of section 34-45-10-4.
Diversion east of section 21 and west of section 22-45-10-4.
Diversion south of section 27-45-10-4.

Diversion west of section 30-45-9-4.
 Diversion west of section 15 and east of section 16-45-9-4.
 Diversion south of section 25-45-9-4.
 Diversion east of section 19-45-7-4.
 Diversion west of section 20-45-7-4.
 Diversion west of sections 17 and 20-45-7-4.
 Diversion east of section 3-44-6-4 and east of section 34-43-6-4.
 Diversion west of section 8-44-6-4.
 Diversion west of section 19-44-6-4.
 Diversion east of section 32-43-6-4.
 Diversion west of section 1-44-6-4.
 Diversion west of section 36-43-6-4.
 Diversion into sections 12 and 13-46-7-4.
 Diversion into sections 7 and 18-46-6-4.
 Diversion south of section 21-47-7-4.
 Diversion east of section 17-47-7-4.
 Diversion west of section 9-47-7-4.
 Diversion west of section 26-49-6-4.
 Diversion north of section 11-49-5-4.
 Diversion west of section 2 and east of section 3-49-6-4.
 Diversion west of section 35 and east of section 34-48-6-4.
 Diversion east of section 15 and west of section 14-50-7-4.
 Diversion west of sections 27 and 34 and east of section 33-49-7-4.
 Diversion east of section 15-50-8-4.
 Diversion east of section 3-50-8-4.
 Diversion west of section 2-50-8-4.
 Diversion east of section 7-50-8-4.
 Diversion north of section 31-50-7-4.
 Diversion west of sections 17 and 20 and east of section 21-51-5-4.
 Diversion north of section 24-52-6-4.
 Diversion north of section 19-52-5-4.
 Diversion west of section 3-53-5-4.
 Diversion west of section 16-53-5-4.
 Diversion west of sections 23 and 36-53-6-4.
 Diversion into sections 23 and 25-53-6-4.
 Diversion west of section 1-54-6-4.
 Diversion west of section 12 and east of section 11-54-6-4.
 Diversion west of section 25-54-6-4.
 Diversion east of section 23 and west of section 24-54-6-4.
 Diversion east of section 11-54-6-4.
 Diversion east of section 14-54-6-4.
 Diversion south of section 27-49-9-4.
 Diversion north of sections 34 and 35-49-11-4.
 Diversion west of section 19-51-10-4 (Two diversions).
 Diversion north of section 23-51-11-4.
 Diversion west of section 25-51-11-4.
 Diversion north of section 13-45-9-4.
 Diversion into section 21-46-11-4.
 Diversion west of section 35-43-6-4.
 Diversion west of section 17-44-11-4.
 Diversion into sections 5 and 8-43-11-4.
 Diversion east of sections 13 and 24-45-14-4.
 Completed diversion north of section 32-50-14-4.

EXAMINATIONS

Examination and report of diversion into section 4-53-4-4.
 Examination and report of road north of section 6-49-17-4.
 Examination and report of road north of section 23-48-15-4.
 Examination and report of bridge location north of section 7-44-10-4.
 Examination and report of roads in sections 34-43-6-4 and 3-44-6-4.
 Examination and report of road across section 6-39-12-4.
 Examination and report re approach to bridge section 36-40-16-4.
 Examination and report of road east of section 8-40-1-4.
 Examination and report of road north of section 10-39-2-4.
 Examination and report of road north of sections 27 and 28-39-6-4.
 Examination and report of bridge location south of section 18-50-12-4.
 Examination and report of trail across section 26-43-9-4.
 Examination and report of muskeg crossing section 21-40-6-4.

Examination and report re crossing of Gillespie Lake, section 11-40-2-4.

Examination and report re lake crossing section 29-39-3-4.

Examination and report of road north of railway track section 3-46-11-4.

Examination and report of situation of bridge east of section 1-50-8-4.

Examination and report of road across sections 1 and 2-51-5-4.

Examination and report of road diversion south of section 3-52-7-4.

Examination and report of road diversion north of section 12-51-13-4.

Examination and report of bridge site west of section 18-43-9-4.

Examination and report of road and proposed bridge location on Battle River in* Tp. 43-9-4.

Examination and report of road east of section 16-49-6-4.

Examination and report of coulee crossing section 35-46-7-4.

Examination and report that road between sections 9 and 10 impossible opened road north of sections 3 and 4-39-2-4.

RESURVEYS

Resurvey of road across centre of section 22-51-5-4.

DRAINS

Staked drain and made report of ditch to drain slough east of section 35-50-19-4.

OTHER WORK

Stake road grade across Grizzley Bear Coulee section 3-48-5-4. (Survey to be made later.)

Progress reports and sketches were forwarded to the department at the time the surveys and examinations were made.

A number of the plans and field notes have already been sent in. The remainder are now in course of preparation.

I have the honour to be, Sir,

Your obedient Servant,

LENNOX T. BRADY, D.L.S.,

District Surveyor and Engineer.

EDMONTON, January 8, 1912.

L. C. CHARLESWORTH, Esq.,

Director of Surveys,

Edmonton.

Sir,—I beg to submit herewith a detailed report of my survey work in the Edmonton district during the season of 1911.

Arriving in Edmonton from Toronto on April 23rd, I immediately proceeded to organize my party for field work. I set up my camp on April 29th and started my field work on May 2nd in the St. Albert district.

Until the middle of September all my work was centred in the district north-west of Edmonton and, on completing all of the work which had been issued to me for that part of my district, I moved south across the Saskatchewan River and east to the Cooking Lake district. Finishing in this part I crossed the Saskatchewan again at Big Island Ferry, worked in the Golden Spike district until cold weather put an end to my regular road diversion work.

At this time, November 30th, I came into Edmonton with expectations of it being the end of my season, but I received instructions to survey a boulevard from Edmonton City limits on the north side of the Saskatchewan River as far as Big Island, crossing the river there and coming back on the south side of the river to the Strathcona City limits. This I immediately proceeded to do, but at the close of 1911, the boulevard was still uncompleted.

Attached herewith you will find a detailed report of my season's work.

A. E. GLOVER,
District Surveyor and Engineer.

DIVERSIONS

Diversion in S.W. quarter section 16-53-7-5.
 Diversion in S.W. quarter section 1-55-4-5.
 Diversion in W. half sec. 33-51-27-4.
 Diversion in N.E. quarter section 5-57-7-5.
 Diversion in S.E. quarter section 17-56-1-5.
 Diversion in E. half section 31-56-2-5.
 Diversion in W. half sections 18 / 19-57-1-5.
 Diversion in S.W. quarter section 2-58-2-5, continuing into S.E. quarter section 3 and N.E. quarter 34, Tp. 57-2-5.
 Diversion in N.E. quarter section 34-56-2-5.
 Diversion in S.W. quarter section 11-56-24-4.
 Diversions in S. half section 29 and the N.E. quarter section 20-58-23-4.
 Diversion in N.E. quarter section 23-61-24-4.
 Diversions in E. half section 21-61-27-4 and E. half section 16-61-27-4.
 Diversions in S.W. quarter section 26 and S.E. quarter section 27, Tp. 57-24-4.
 Diversion in S.E. quarter section 18-54-20-4.
 Diversion in W. half section 6-54-20-4.
 Diversion in S.E. quarter section 10-53-21-4.
 Diversion in S. half section 2-51-21-4.
 Diversion in S.E. quarter section 15-48-22-4.
 Diversion in N.E. quarter section 24-51-26-4.
 Diversion in the E. half sections 6 / 7, Tp. 52-25-4.
 Diversion in E. half section 2-52-3-5.
 Diversion in S. half section 25-52-2-5.
 Diversion in N.W. quarter section 7-56-26-4.
 Diversion in S.W. quarter section 15-53-4-5.

EXAMINATIONS

Examination of Tp. line from the N.E. corner of section 33-51-3-5 to the N.E. corner of 32-51-4-5.
 Examination of road asked for from the West end of Island Lake in 53-6-5 to 55-6-5.
 Examination of road diversion east of the N.W. quarter of section 9-53-25-4.
 Examination of road allowance between sections 20 / 29-53-24-4.
 Examination of road allowance in rear of R. L's. 46, 47 and 48, St. Albert Settlement.
 Examination of road allowance south of sections 1 / 2 and east of sections 3 / 10-57-2-5.
 Examination of road allowance north of section 7-56-23-4.
 Examination of road allowance north of section 20-56-23-4.
 Examination of road allowance east of section 36-58-24-4.
 Examination of road allowance north of section 24-59-25-4.
 Examination of surveyed road along south boundary of N.W. quarter section 36-59-24-4.
 Examination of road allowance north of section 24-60-1-5.
 Examination of new road through section 10, Tp. 61-27-4.
 Examination of road allowance north of section 22-51-2-5.
 Examination of road conditions in Tp. 52-27-4.

Examination of road allowance east of sections 6 and 7 and sections 5 and 8-51-27-4.

Examination as to necessity for road between sections 25 / 36-50-28-4.

Examination of road allowance east of sections 21 / 16-50-25-4.

Examination of road allowance east of sections 4 / 9, Tp. 58-2-5.

NEW ROADS

Survey of travelled trail from Lac St. Anne Settlement to Entwistle.
Survey of new road from the east boundary of section 9-53-4-5 into Wabamun Townsite.

Survey of a blind line road between sections 22 / 15 and 21 / 16-57-7-5.

Survey of new road through sections 8 / 17 / 18, Tp. 58-3-5.

Survey of blind line road between sections 4 / 9, 5 / 8, 6 / 7, Tp. 60-1-5, and road through sections 1 / 2-60-2-5.

Survey of road southward on centre line of sections 23 / 14-52-22-4.

Survey of blind line road between sections 30 / 31-51-20 and 25 / 36-51-21-4.

Survey of new road through the centre of sections 32 / 33-48-21-4.

Survey of new road on centre line of sections 8 / 9-48-22-4.

Survey of new road through sections 27 / 34, Tp. 52-2-5, connecting with Carvel Townsite.

Survey of blind line road between sections 18 / 19, 13 / 24, 14 / 23, 13 / 22, Tp. 54-1 / 2-5.

Survey of road from Saskatchewan River along centre line of sections 17 / 18-51-25-4.

Survey of blind line road between sections 24 / 13-56-2-5.

Survey of travelled trail through the North half section 24-61-24-4.

Survey of road through Sec. 12-52-2-5.

MISCELLANEOUS

Change in road across R. L's. 39, 40, 63, St. Albert Settlement.

Change in trail across R. L. 6, L'Amoureux Settlement.

Change in diversion in North half section 12, Tp. 51-22-4, and North half section 7-51-21-4.

Check of same diversion.

Change of survey in section 13-51-21-4.

Check of trail surveyed through 13 / 24 / 19, Tp. 51-21 / 20-4.

Retracement of trail in section 17-51-25-4.

Change of survey in section 3-51-26-4.

Checking trail survey through St. Albert Settlement on south of the Sturgeon.

Check of diversion survey in N.W. quarter 24, Tp. 51-21-4. (Survey changed.)

Check of survey in section 24-49-24-4.

Check of survey in north half section 12-51-22-4.

COAL MINES BRANCH

Inside Staff.....One Clerk in Charge
Outside Staff... ..Five Inspectors

It will be noted from the following tables that the output for the year 1911 shows a decrease of 1,342,193 tons below the year 1910. This is due to the fact that operations were discontinued in all the large mines in the southern part of the Province owing to a strike which extended for a period of practically eight months.

Year.	Output in tons for N.W.T. (Alberta and Saskatchewan).	Output in tons, Alberta.
1901.....	346,649	.....
1902.....	510,674	.....
1903.....	622,939	.....
1904.....	782,931	.....
1905.....	.....	811,228
1906.....	.....	1,385,000
1907.....	.....	1,834,745
1908.....	.....	1,845,000
1909.....	.....	2,174,329
1910.....	.....	3,036,757
1911.....	.....	1,694,564

The above figures show that there has been a decrease of 44.19 per cent. below the 1910 output.

CLASSIFICATION OF OUTPUT OF COAL IN ALBERTA DURING THE YEAR 1911.

	Tons.
Lignite Coal	964,700
Bituminous Coal	649,745
Anthracite Coal	80,119
Coal used in coke production	61,591
Coke produced	35,984
Briquettes produced	48,200

The above table shows that there has been an increase of 9.87 per cent. over the output of Lignite coal for the year 1910, and decreases of 65.74 per cent. for Bituminous, and 69.39 per cent. for Anthracite coal below the outputs for the year 1910.

The following table indicates how the Bituminous coal outputs from the different districts in the Province were disposed of:

TONS OF 2,000 LBS.	CROW'S NEST PASS	CAL- GARY	LETH- BRIDGE	EDMON- TON	TOTAL
Sold for consumption in Al- berta	309,512	88,609	.....	10,619	408,740
Sold for consumption in other provinces	64,354	113	.....	.....	64,467
Sold for export to the United States	36,016	.....	.....	.....	36,016
Total Sales	409,882	88,722	.....	10,619	509,223
Used in making coke	61,591	.....	.....	.....	61,591
Used under colliery boilers .	41,433	9,377	.....	3,500	54,310
To stock	15,213	174	.....	9,234	24,621
Total	528,119	98,273	.....	23,353	649,745

The following table indicates how the Anthracite coal and Briquette outputs of the Province were disposed of:

TONS OF 2,000 LBS.	CALGARY DISTRICT	
	Coal	Briquettes
Sold for consumption in Alberta	25,677	23,965
Sold for consumption in other provinces	5,705	23,981
Sold for export to the United States .....	.....	30
Total Sales	31,382	47,976
Used under colliery boilers ..	10,878	224
Used in making briquettes ..	37,859	.....
Total	80,119	48,200

The following table indicates how the Lignite coal outputs from the different districts in the Province were disposed of:

TONS OF 2,000 LBS.	CROW'S NEST	CAL- GARY	LETH- BRIDGE	EDMON- TON	TOTAL
Sold for consumption in Al- berta		55,196	181,092	377,745	614,033
Sold for consumption in other provinces		6,937	166,386	70,038	243,361
Sold for export to the United States			4,587	.....	4,587
Total Sales		62,133	352,055	447,783	861,981
Used under colliery boilers ..		4,116	51,752	13,533	69,401
Slack		1,392	7,979	23,947	33,318
Total Output		67,641	411,796	485,263	964,700

The following table indicates how the output of Coke was disposed of:

Sold for consumption in Alberta	213	tons of 2,000 lbs.		
Sold for consumption in other provinces	27,669	"	"	"
Sold for export to the United States	7,871	"	"	"
Total Sales	35,753	"	"	"
For colliery use	463	"	"	"
Total Output	36,216	"	"	"

The Crow's Nest Pass is the only district in the Province in which coke is produced.

The following summary shows the Total Sales of Coal, Briquettes and Coke of the Province:

	TONS OF 2,000 LBS.			Total
	Sold for consumption in Alberta	Sold for consumption in other Provinces	Sold for export to United States	
Bituminous coal	408,740	64,467	36,016	509,223
Anthracite coal	25,677	5,705	.....	31,382
Lignite coal	614,033	243,361	4,587	861,981
Total Sales	1,048,450	313,533	40,603	1,402,586
Briquettes	23,965	23,981	30	47,976
Coke	213	27,689	7,871	35,753

The following table shows the Classification of Persons employed above and below ground in the Bituminous Fields:

AVERAGE NUMBER EMPLOYED

CHARACTER OF LABOUR	Crow's Nest Pass Dist		Calgary District		Edmonton District		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision and clerical assistance	80	63	8	16	5	4	93	83
Miners and helpers	..	829	..	268	..	43	..	1140
Mechanics or skilled labour .	170	47	22	10	14	2	206	59
Other employees	420	421	69	115	33	2	522	538
Total	670	1360	99	409	52	51	821	1820

The following summary shows the Classification of Persons employed above and below ground in the Lignite Fields:

AVERAGE NUMBER EMPLOYED

CHARACTER OF LABOUR	Calgary District		Lethbridge District		Edmonton District		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision and clerical assistance	17	15	56	46	68	51	141	112
Miners and helpers	..	112	....	1287	....	684	....	2083
Mechanics or skilled labour	20	4	145	26	80	19	245	49
Other employees	26	5	360	161	288	78	674	244
Total	63	136	561	1520	436	832	1060	2488

The following table shows the Classification of Persons employed above and below ground in the Bituminous, Anthracite and Lignite Fields:

AVERAGE NUMBER EMPLOYED

CHARACTER OF LABOUR	Bituminous		Anthracite		Lignite		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision and clerical assistance	93	83	12	8	141	112	246	203
Miners and helpers		1140		150		2083		3373
Mechanics or skilled labour	206	59	9	1	245	49	460	169
Other employees	522	538	270	50	674	244	1466	832
Total	821	1820	291	209	1060	2488	2172	4517

PER CAPITA PRODUCTION OF MINES

YEAR	TONS OF 2,000 LBS.				
	Gross tons of coal mined	Total No of men employed	Tons of coal mined per man	No. of men employed underground	Tons of coal mined per man employed underground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566*
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375**

*During the year 1909, a strike affecting all the larger mines in the Province lasted for a period of three months.

**During the year 1911, a strike affecting all the larger mines in the Province lasted for a period of eight months.

SUMMARY OF STATISTICS

Number of mines at present in operation	224
Number of new mines opened in 1911	68
Number of mines abandoned in 1911	26
Number of tons of coal mined in 1911	1,694,564
Number of tons of coke produced in 1911	35,984
Number of tons of briquettes produced	48,200
Average number of persons employed inside mines	4,517
Average number of persons employed outside mines	2,172
Average number of persons employed inside the mines during December, 1911	4,734
Average number of persons employed outside the mines during December, 1911	2,312
Number of separate accidents causing loss of life	6
Number of deaths caused by accidents inside the mines	7
Number of deaths caused by accidents outside the mines	
Number of serious accidents inside the mines	29
Number of serious accidents outside the mines	3
Number of slight accidents inside the mines	38
Number of slight accidents outside the mines	7
Number of mine managers' certificates issued	19
Number of pit boss certificates issued	21
Number of fire boss certificates issued	51

EXPLOSIVES

The following tables showing the quantity of the various kinds of explosives used during the year in mines, the estimated number of shots fired, the methods of firing them and the number of miss-fires recorded, have been compiled from returns furnished by the mine owners:

QUANTITY OF EXPLOSIVES USED IN LBS.

NAME of EXPLOSIVE	Crow's Nest Pass	Lethbridge	Calgary	Edmonton	Total
Black powder .....	.....	124,647	38,658	128,026	291,331
Monobel	109,067	9,794	22,607	11,890	153,358
Samsonite	3,800	.....	2,544	.....	6,344
Dynamite	16,588	12,532	5,636	13,128	47,884
Total	129,455	146,973	69,445	153,044	498,917

ESTIMATED NUMBER OF SHOTS FIRED

DISTRICT	By Electricity	By Fuse Igniter	By Shot Firer's Lamp	By Other Fuse	Total
Crow's Nest Pass	13,125	46,499	32,148	4,238	96,010
Lethbridge	12,456	9,250	12,000	98,009	131,715
Calgary	18,850	10,800	5,000	29,917	64,567
Edmonton	5,464	4,143	6,514	91,597	107,718
Total	49,895	70,692	55,662	223,761	400,010

NUMBER OF MISS-FIRE SHOTS RECORDED

DISTRICT	By Electricity	By Fuse	Total
Crow's Nest Pass	66	517	583
Lethbridge	177	268	445
Calgary	80	183	263
Edmonton	. .	326	326
Total	323	1294	1617

No statistics are available as to the causes of the miss-fires.

MINES OPENED DURING THE YEAR 1911.

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
262	Rose Lynn	William Oscar	Lignite
263	Wabamun	W. C. Dunn	"
264	Stavely	Stavely Coal Mining Co.	"
265	Bow Island	W. H. Simalton	"
266	Bow Island	M. T. Murphy	"
267	St. Albert	St. Albert Collieries, Ltd.	"
268	Halkirk	Charles Strader	"
269	Halkirk	Davis Brothers & Co.	"
270	Bow Island	Arblaster and Lloyd	"
271	Milk River	S. Brockhouse	"
272	Bow Island	A. C. Gage	"
274	Halkirk	Bliss & Brandt	"
275	Castor	Castor Coal Co., Ltd.	"
276	Diamond City	Murray & Woodruff	"
277	Masinasin	Duncan Kippen	"
278	Lucky Strike	S. Jorginson	"
279	Milk River	Daniel G. McKay	"
280	Pocahontas	Jasper Park Collieries, Ltd.	Bituminous
281	Carstairs	G. H. Knowlton	"
282	Edmonton	Mountain Park Collieries, Ltd.	"
283	Clover Bar	Great West Coal Co.	Lignite
284	Kimball	Big Chief Coal Mining Co., Ltd.	"
285	Keho	Thomas Davis	"
286	Big Valley	Square Deal Mercantile Co.	"
287	Big Valley	G. W. Davison	"
288	Forman	Richard Airey	"
289	Gadsby	A. Gray	"
290	Big Valley	Davison & Thomsie	"
291	Gadsby	James Waggoner	"
292	Pincher Creek	John Morris	Bituminous
293	Lundbreck	Coal Securities, Ltd.	"
294	Grassy Lake	G. Gibson	Lignite
295	Pincher Creek	J. H. Owen	Bituminous
296	Thigh Hill	William Ellis	Lignite
297	Medicine Hat	F. M. Ginther	"
298	Big Valley	Thomsie & Davison	"
299	Strathmore	Roseby Farming & Development Co.	"
300	Pincher Creek	The Bullock Coal Mining Co.	Bituminous
301	Big Valley	U. G. Robinson	Lignite
302	Wetaskiwin	Anderson & Rosenroll.	"
303	Three Hills	George Watson	"
304	Castor	Hugh D. McLean	"
305	Calgary	Bonnie Brae Coal & Quarries, Ltd.	Semi-Bituminous
306	Lucky Strike	James Scott Bennie	Lignite
307	Long Coulee	William John Sanderson	"
308	Lucky Strike	H. B. Hughson	"
309	Rose Lynn	A. Haeckl	"
310	Edmonton	North Alberta Coal Syndicate	Bituminous
311	Kimball	Giles & Honning	Lignite
312	Gadsby	John Hoffman	"
313	Pincher Creek	Tonge & Gorton	Bituminous
314	Calgary	Calgary Collieries, Ltd.	Lignite
315	Trochu	David Halbert	"
316	Lethbridge	Cardston Coal & Coke Co.	"
317	Drumheller	G. N. Coyle	"
318	Carbon	Duncan McKenzie	"
319	Wabamun	Lake View Coal Co.	"
320	Gadsby	Rider Brothers	"
321	Calgary	Colonel James A. Walker	"
322	Trochu	The Trochu Coal Co.	"
323	Bow Island	Hines, Fisher & Carlson	"
324	Winnifred	R. A. Salisbury	"
325	Castor	Excelsior Coal Co.	"

MINES OPENED DURING THE YEAR 1911.—*Continued.*

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
326	DeWinton	W. M. David	Lignite
327	Trochu	Ostheller & Kruger	"
328	Trochu	George C. Yard	"
329	Castor	John Heney	"
330	Pincher Creek	A. Link	Bituminous

MINES OPERATED DURING THE YEAR 1911.

NO.	LOCATION	OPERATED BY	CHARACTER OF COAL
2	Canmore	The Canmore Coal Co., Ltd.	Bituminous
3	Lethbridge	Alberta Ry. & Irrigation Co., Ltd....	Lignite
8	Clover Bar	Wm. Daly	"
9	Clover Bar	Clover Bar Coal Co., Ltd.	"
28	Namoo	Stewart & Campbell	"
29	Ellerslie	White Star Coal Co., Ltd.	"
30	Black Diamond	A. D. McPherson	"
32	Cardiff	The Cardiff Collieries, Ltd.	"
37	Medicine Hat	H. & W. Ansley	"
40	Hillcrest	Hillcrest Collieries, Ltd.	Bituminous
43	Edmonton	The Humberstone Coal Co.	Lignite
46	Edmonton	Love & Cameron	"
47	Strathcona	Strathcona Coal Co.	"
48	Frank	The Canadian Coal Consolidated, Ltd..	Bituminous
49	Edmonton	Edmonton Standard Coal Co., Ltd....	Lignite
53	Carbon	The Knee Hill Coal Co., Ltd.	"
54	Lethbridge	James Ashcroft	"
55	Lethbridge	G. F. Russell	"
56	Lethbridge	T. R. Baker	"
57	Pincher Creek	Thomas Nash	Bituminous
59	Lundbreck	The Galbraith Coal Co., Ltd.	Semi-Bituminous
61	Medicine Hat	Fred Scott	Lignite
64	Lille	West Canadian Collieries, Ltd.	Bituminous
69	Clover Bar	Keith & Fulton	Lignite
70	High River	William Ellis	"
72	Gleichen	Blackfoot Indians	"
74	Edmonton	Milner & Shoeman	"
75	Namoo	Lauchlan & Spedding	"
77	Lundbreck	Breckenridge & Lund Coal Co., Ltd..	Semi-Bituminous
80	Bankhead	Bankhead Mines, Ltd.	Anthracite
82	Taber	Eureka Coal Co., Ltd.	Lignite
87	Bellevue	West Canadian Collieries, Ltd.	Bituminous
88	Coleman	International Coal & Coke Co., Ltd....	"
89	Edmonton	The Western Coal Co., Ltd.	Lignite
90	Clover Bar	Byers Brothers	"
91	Clover Bar	R. P. Ottewell	"
92	Royal View	Royal Collieries, Ltd.	"
99	Edmonton	Manders Brothers	"
101	Namoo	Fiske & Jablonski	"
103	Carstairs	G. H. Knowlton	"
104	Diamond City	Diamond Coal Co., Ltd.	"
105	Taber	Canada West Coal Co.	"
106	Taber	Domestic Coal Co.	"
110	Namoo	Murdoch Sutherland	"
112	Three Hills	Three Hills Coal & Dev. Co., Ltd.	"
113	Three Hills	Nichols & Abriel	"

MINES OPENED DURING THE YEAR 1911.—*Continued.*

NO.	LOCATION	OPERATED BY	CHARACTER OF COAL
114	Elcan	The Independent Coal Co., Ltd. . . .	Lignite
115	Carbon	Dodds, Currie & Hoding	"
116	Three Hills	Charles Catchpole	"
120	Baronet	D. A. Campbell	"
126	Passburg	The Leitch Collieries, Ltd.	Bituminous
129	Cardiff	The Alberta Coal Mining Co., Ltd. . .	Lignite
130	Elcan	Alberta Consolidated Coal Co., Ltd. .	"
131	Elcan	Alfred Fox	"
132	Taber	Canadian Pacific Railway Co.	"
133	Bellevue	Maple Leaf Coal Co.	Bituminous
134	Reid Hill	Henderson Brothers	Lignite
135	Carmangay	Durham Collieries, Ltd.	"
126	Long Coulee	Henry Therriault	"
137	Reid Hill	W. J. Greenaway	"
142	Three Hills	George Watson	"
143	Bowville	W. J. Bell	"
145	Pincher Creek	Pincher Creek Coal Mining Co., Ltd..	Bituminous
147	Edmonton	Ritchie Coal Co., Ltd.	Lignite
148	Edmonton	Western Coal Company	"
149	Tofield	J. J. McDevitt	"
150	Tofield	The Tofield Coal Co., Ltd.	"
151	Reid Hill	J. W. Brown	"
153	Burmis	Davenport Coal Co.	Bituminous
154	Grassy Lake	Raisbeck Collieries, Ltd.	Lignite
155	Edmonton	Dawson Coal Co.	"
157	Taber	The Southern Alberta Coal Co., Ltd..	"
162	Magrath	Magrath Coal Co.	"
163	Taber	J. E. Shirts	"
165	Medicine Hat	Redcliff Brick & Coal Co., Ltd.	"
166	Bullocksville	John P. Dweak	"
167	Content	R. W. K. Cousins	"
168	Nevis	Crystal Coal Co.	"
169	Cochrane	The Calgary Coal Syndicate, Ltd.	"
170	Elcan	Rock Springs Coal & Brick Co., Ltd..	"
174	Lethbridge	Lethbridge Collieries, Ltd.	"
177	Strathcona	Twin City Coal Co., Ltd.	"
178	Namao	Nash & Williams	"
179	Coutts	Joseph Oborn	"
180	Grassy Lake	J. J. Mills	"
181	Taber	Monarch Collieries, Ltd.	"
183	Camrose	Stoney Creek Collieries, Ltd.	"
184	Pincher Creek	Rolla B. Good	Bituminous
185	Bow Island	David H. Long	Lignite
186	Bow Island	James Wallwork	"
187	Carbon	Black Diamond Coal Co.	"
189	Carbon	Hedstrom Bros.	"
192	Lethbridge	City of Lethbridge	"
193	Blairmore	West Canadian Collieries, Ltd.	Bituminous
194	Ghost Pine Creek	Robert Cook	Lignite
195	Lethbridge	Standard Lethbridge Collieries, Ltd..	"
196	Namao	Dawkins & Co.	"
197	Lethbridge	Bow Centre Collieries, Ltd.	"
198	Champion	W. E. Watkins	"
199	Pincher Creek	Western Coal & Coke Co.	Bituminous
200	Medicine Hat	Ab. Day	Lignite
201	Taber	The Golden West Coal Mining Co., Ltd.	"
202	Taber	The Superior Coal Co., Ltd.	"
203	Lethbridge	The New Barnes Coal Co.	"
204	Coleman	McGillivray Creek Coal & Coke Co..	Bituminous
205	Bow Island	A. A. Lindquist	Lignite
207	Burmis	Carbon Hill Coal & Coke Co. (prospect)	Bituminous
209	Burmis	Head Syndicate, Ltd. (prospect)	"
210	Burmis	Premier Coal & Coke Co. (prospect)..	"

MINES OPERATED DURING THE YEAR 1911.—Continued

NO.	LOCATION	OPERATED BY	CHARACTER OF COAL
211	Stettler	Duncan & Richards	Lignite
212	Halkirk	Charles Hilker	"
213	Grasy Lake	S. Ervine	"
214	Three Hills	Dick & Halbert	"
215	Strathcona	E. W. McKenzie	"
217	Lethbridge	McWilliams (prospect)	"
218	Reid Hill	Ashmore & Carruthers	"
219	Big Prairie	G. H. Knowlton	Bituminous
220	Bickerdyke	The Yellow Head Pass Coal & Coke Co., Ltd.	Semi-Bituminous
221	Riviere Qui Barre ..	Riviere Qui Barre Coal Co.	Lignite
222	Pincher Creek	Wm. McFarlane	"
223	Lethbridge	Adams Coal Mine Co., Ltd.	"
224	Reid Hill	Henderson Brothers	"
225	Diamond City	John Thomas	"
226	Lethbridge	Bow Centre Collieries, Ltd.	"
227	Edmonton	Pembina Coal Co., Ltd. (Prospect) ..	"
228	Taber	Belly River Collieries, Ltd.	"
229	Taber	Superior Coal Co., Ltd.	"
231	Canmore	Kananaskis Coal Co., Ltd. (Prospect) ..	Bituminous
232	Bawlf	Bawlf Collieries, Ltd.	Lignite
233	Heatherwood	Pacific Pass Coal Fields, Ltd. (Prospect) ..	Semi-Bituminous
234	Eyremore	Archer & Larosee	Lignite
236	Medicine Hat	The Drowning Ford Coal Co.	"
237	Cardiff	Banner Coal Company	"
238	Bow Island	M. Simpson	"
239	Winnifred	J. O'Neill	"
240	Halkirk	Karaus & Stiebritz	"
241	Camrose	Dutcher, Maxwell & Co	"
242	Bawlf	C. P. Potter	"
243	Castor	Battle Axe Coal Mine	"
244	Camrose	Stoney Creek Collieries, Ltd.	"
245	Hastings Coulee	N. K. Lund	"
246	Castor	A. D. McCormack	"
247	Lethbridge	Chinook Coal Co., Ltd.	"
248	Hastings Coulee	Bish Brothers & Co.	"
249	Wanda	J. M. Schares	"
250	Round Hill	Round Hill Collieries, Ltd.	"
251	Daysland	Julius Wilkinson	"
252	Tofield	Tofield Coal Co.	"
253	Pincher Creek	A. D. McKinnon	Bituminous
254	Lethbridge	Heighes Brothers	Lignite
255	Gaetz Valley	T. D. Conger	"
256	Edmonton	Brazeau Collieries, Ltd. (Prospect) ..	Bituminous
257	Fieldholme	Goodhall & Park	Lignite
258	Rose Lynn	A. C. Sinclair	"
259	Milk River	Erickson Brothers	"
260	Wabamun	Conner Coal Mining Co., Ltd.	"
261	Coleman	P. A. Paulson	Bituminous
262	Rose Lynn	William Oscar	Lignite
263	Wabamun	W. C. Dunn	"
264	Stavely	Stavely Coal Mining Co.	"
265	Bow Island	W. H. Simanton	"
266	Bow Island	M. T. Murphy	"
267	St. Albert	St. Albert Collieries, Ltd.	"
268	Halkirk	Charles Strader	"
270	Bow Island	Arblaster & Lloyd	"
271	Milk River	S. Brockhouse	"
272	Bow Island	A. C. Gage	"
273	Halkirk	Davis Brothers, Coal Co.	"
274	Halkirk	Halkirk Collieries	"
275	Castor	Castor Coal Co., Ltd.	"

MINES OPERATED DURING THE YEAR 1911.—*Continued*

NO.	LOCATION	OPERATED BY	CHARACTER OF COAL
276	Diamond City	Diamond Sunrise Coal Co.	Lignite
277	Masinassin	Duncan Kippen	"
278	Lucky Strike	Sebb Jorgenson	"
279	Milk River	Daniel G. McKay	"
280	Pocahontas	Jasper Park Collieries, Ltd.	Bituminous
281	Cremona	G. H. Knowlton	Lignite
282	Edmonton	Mountain Park Coal Co. (Prospect) ..	Bituminous
283	Clover Bar	Great West Coal Co., Ltd.	Lignite
284	Kimball	Big Chief Coal Mining Co., Ltd.	"
285	Keho	Thomas Davis	"
286	Big Valley	Square Deal Mercantile Co.	"
287	Big Valley	G. W. Davison	"
288	Forman	Richard Airey	"
289	Gadsby	Armur Gray	"
290	Big Valley	Davison & Thomsie	"
291	Gadsby	James Wagner	"
292	Pincher Creek	John Marsh	Bituminous
293	Lundbreck	Coal Securities, Ltd. (Prospect)	"
294	Grassy Lake	George Gibson	Lignite
295	Pincher Creek	J. H. Owen	Bituminous
296	Thigh Hill	William Ellis	Lignite
297	Medicine Hat	F. M. Ginther	"
299	Strathmore	Roseby Farming & Development Co. ..	"
300	Pincher Creek	Bullock Coal Mining Co.	Bituminous
301	Big Valley	U. G. Robinson	Lignite
302	Wetaskiwin	Anderson & Rosenroll	"
303	Three Hills	George Watson	"
304	Castor	Hugh D. McLean	"
305	Cochrane	Bonnie Brae Coal & Quarries, Ltd.	Semi-Bituminous
306	Lucky Strike	James Scott Bennie	Lignite
307	Long Coulee	William John Sanderson	"
308	Lucky Strike	H. B. Hughson	"
309	Rose Lynn	J. A. Haeckl	"
310	Pocahontas	North Alberta Coal Syndicate	Bituminous
311	Kimball	Giles & Hanning	Lignite
312	Gadsby	John Hoffman	"
313	Pincher Creek	Tonge & Gorton	Bituminous
314	Lignite	Calgary Collieries, Ltd.	Lignite
315	Trochu	David Halbert	"
316	Cardston	Cardston Coal & Coke Co.	Bituminous
317	Drumheller	Newcastle Coal Co., Ltd.	Lignite
318	Carbon	Duncan McKenzie	"
319	Wabamun	Lake View Coal Co.	"
320	Gadsby	Rider Brothers	"
321	Calgary	Colonel James A. Walker	"
322	Trochu	Trochu Coal Co.	"
323	Bow Island	Hines, Fisher & Carlson	"
324	Winnifred	R. A. Salisbury	"
325	Excelsior	Excelsior Coal Company	"
326	DeWinton	W. M. Davis	"
327	Trochu	Ostheller & Kruger	"
328	Perbeck	George C. Yard	"
329	Castor	John Heney	"
330	Pincher Creek	A. Link	Bituminous

MINES ABANDONED DURING 1911.

- Mine No. 47.—Operated by The Strathcona Coal Company, Strathcona, River Lot 9.
- Mine No. 61.—Operated by Fred Scott, Medicine Hat, south-east quarter of section 6, township 13, range 6, west of 4th.
- Mine No. 70.—Operated by William Ellis, High River, section 9, township 18, range 2, west of 5th.
- Mine No. 74.—Operated by Milner and Shoeman, Edmonton, section 7, township 53, range 23, west of 4th.
- Mine No. 99.—Operated by Manders Brothers, Edmonton, section 6, township 53, range 23, west of 4th.
- Mine No. 89.—Operated by The Western Coal Company, Limited, Edmonton, section 7, township 53, range 23, west of 4th.
- Mine No. 110.—Operated by Murdoch Sutherland, Namao, section 4, township 55, range 24, west of 4th.
- Mine No. 143.—Operated by W. J. Bell, Bowville, north-east quarter of section 25, township 14, range 22, west of 4th.
- Mine No. 145.—Operated by The Pincher Creek Coal Mining Company, Pincher Creek, section 17, township 6, range 30, west of 4th.
- Mine No. 147.—Operated by the Ritchie Coal Company, Limited, Edmonton, Fraser's Flats.
- Mine No. 154.—Operated by Raisbeck Collieries, Limited, Grassy Lake, south half of section 9, township 10, range 13, west of 4th.
- Mine No. 157.—Operated by the Southern Alberta Coal Company, Limited, south half section 8, township 10, range 17, west of 4th.
- Mine No. 163.—Operated by J. E. Shirts, Taber, south-east quarter of section 30, township 10, range 16, west of 4th.
- Mine No. 166.—Operated by John P. Dweak, Bullocksville, sections 13 and 24, township 38, range 23, west of 4th.
- Mine No. 168.—Operated by Crystal Coal Company, Nevis, north-east quarter section 2, township 39, range 22, west of 4th.
- Mine No. 184.—Operated by Rolla B. Good, Pincher Creek, north-west quarter of section 11, township 11, range 1, west of 5th.
- Mine No. 195.—Operated by Standard Lethbridge Collieries, Limited, Lethbridge, south-east quarter section 28, township 9, range 21, west of 4th.
- Mine No. 200.—Operated by Ab. Day, Medicine Hat, section 1, township 9, range 6, west of 4th.
- Mine No. 211.—Operated by Duncan & Richards, Halkirk, south-east quarter section 18, township 39, range 15, west of 4th.
- Mine No. 215.—Operated by E. W. McKenzie, Strathcona, section 14, township 49, range 18, west of 4th.
- Mine No. 217.—Operated by Alexander McWilliams, Regina, section 8, township 10, range 22, west of 4th.
- Mine No. 225.—Operated by John Thomas, Diamond City, legal subdivisions 12 and 13, section 9, township 10, range 21, west of 4th.
- Mine No. 258.—Operated by A. C. Sinclair, Rose Lynn, section 21, township 28, range 14, west of 4th.
- Mine No. 266.—Operated by M. T. Murphy, Bow Island, south half section 9, township 12, range 10, west of 4th.
- Mine No. 287.—Operated by G. W. Davison, Big Valley, south-west quarter section 36, township 35, range 20, west of 4th.
- Mine No. 313.—Operated by Tonge and Gorton, Pincher Creek, south half legal subdivision 1, section 16, township 6, range 30, west of 4th.

MINES REOPENED DURING 1911.

- Mine No. 75.—Operated by Lauchlan and Spedding, Namao. Formerly operated by Clarke & Jefferson.
- Mine No. 89.—Operated by the Great West Coal Company, Limited. Formerly operated by the Western Coal Company, Limited, Edmonton.
- Mine No. 169.—Operated by The Calgary Coal Syndicate, Limited. Formerly operated by the Western Canada Cement and Coal Company, Limited, Cochrane.

LIST OF CANDIDATES who Successfully Passed the Examinations
held During the Year 1911.

NAME	ADDRESS	NO. OF CERT.
MINE MANAGERS		
Clyne, James	Canmore	
Davis, David	Coleman	62
Givin, Homer Holt	Lethbridge	57
Gray, David	Mitford	65
Howells, Nathaniel	Maple Leaf	64
Jones, David	Strathcona	67
Kellock, George	Coleman	59
Kinsman, Alexander	Hosmer, B. C.	..
Lee, Robert John	Edmonton	56
Millar, Andrew	Edmonton	54
McDonald, Duncan	Canmore	60
O'Donnell, Thomas	Kipp	61
Roberts, Edward	Edmonton	55
Reid, John Callum	Lethbridge	53
Stevenson, John	Taber	68
Thomas, Joseph David	Passburg	66
Thomas, Willis P.	Diamond City	58
PIT BOSSES		
Allen, Peter	Blairmore	72
Brockhouse, Israel Bertram	Milk River	74
Coupland, George	Bellevue	77
Crowder, Harry	Lundbreck	69
Hamilton, Allan	Pincher Creek	78
Heeley, William Grafton	Bickerdike	80
Hill, James	Lethbridge	84
Kellock, James	Coleman	82
Luck, George	Maple Leaf	70
Munro, William Kennedy	Bellevue	76
Murphy, Peter J.	Edmonton	..
McDonald, James A.	Bellevue	79
McIntyre, John J.	Mountain Mill	..
McKay, Angus	St. Albert	81
McMillan, Donald	Coleman	71
Powell, A. E.	Strathcona	..
Quigley, Daniel Hugh	Lethbridge	73
Ramsay, Peter M.	Lethbridge	..
Roberts, Ebenezer	Bellevue	..
Shaw, John Thomas	Canmore	75
Taylor, George Warren	Lethbridge	83
Tonge, Thomas	Beaver Creek	..
Thomas, John J.	Frank	..
FIRE BOSSES		
Barber, James S.	Hillcrest	144
Covio, Michael	Bellevue	146
Brown, Alan J.	Edmonton	163
Carson, George	Frank	154
Charlton, Samuel	Hillcrest	179
Coombs, Peter J.	Taber	164
Coupland, Edward	Bellevue	173
Coupland, George	Bellevue	148
Davidson, David	Edmonton	170
Doodson, Robert	Coal Creek, B. C.	177
Duthie, Alexander	Edmonton	184
Evans, Hugh	Lethbridge	156
Ford, Allen	Burmis	183

LIST OF CANDIDATES who Successfully Passed the Examinations
During the Year 1911.—*Continued.*

NAME	ADDRESS	NO. OF CERT.
Garbett, Richard	Michel, B. C.	180
Garrett, John	Lille	147
Griffiths, John Thomas	Lille	168
Hallday, George William	Champion	155
Heap, Robert	Burmis	183
Hughes, William R.	Taber	181
Hutton, George	Bellevue	186
Kaye, Herschel	Maycroft	191
Leblanc, Emile	Coleman	153
Letcher, John J.	Hillcrest	149
Littler, John	Michel, B. C.	190
Littler, Robert	Michel, B. C.	166
Loxton, George	Stirling	176
Mason, Samuel	Taber	187
Massey, Harry	Michel, B. C.	172
Miller, Walter	Bellevue	159
Moore, James H.	Coleman	167
Morgan, Owen	Coleman	143
Morrison, Malcolm	Coleman	189
Munro, William K.	Lille	150
Muir, David	Lundbreck	151
Murray, John	Lille	174
McGladrie, John	Lille	152
McMullin, Joseph	Kipp	171
Picton, Daniel	Passburg	178
Quigley, Daniel H.	Stafford Village ..	157
Rawlinson, R.	Burmis	182
Reid, James	Frank	158
Richard, Samuel	Corbin, B. C.	175
Richards, Evan	Edmonton	162
Scott, Alexander	Pocahontas,	185
Thompson, Joseph	Coleman	165
Thomson, Thomas Wilson ..	Bankhead	161

CERTIFICATES issued by Government of the North-West Territories
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NAME	ADDRESS	NO. OF CERT.
MINE MANAGERS		
Addie, W.	Lundbreck	**19
Aspinall, Francis	Bellevue	*22
Ashburner, Edward	Lethbridge	*40
Alderson, Fred Dunn	(Deceased)	*52
Bradshaw, G. B.	Nanaimo, B. C.	**61
Broome, G. H.	New Zealand	**46
Bastian, J.	Taber	**43
Brown, J.	Banff	**18
Baxter, Andrew N.	Lethbridge	*47
Colville, A.	(Deceased)	**52
Collins, W. F.	Blairmore	†24
Coulthard, R. W.	Blairmore	†8

CERTIFICATES issued by Government of the North-West Territories
and by The Government of the Province of Alberta.

—Continued.

NAME	ADDRESS	NO. OF CERT.
Church, J. A. H.	Frank	*11
Cunningham, G. F.	Edmonton	*7
Crowder, J.	Coleman	*38
Christianson, Peter	Edmonton	*48
Drinnan, R. G.	Fernie, B. C.	**29
Dickson, G. H.	Coleman	*3
Dunn, A. C.	Edmonton	*18
Derbyshire, J.	Bellevue	*35
Davidson, W. A.	Coleman	*25
Davis, David	Coleman	*62
Emmerson, J.	Frank	**50
Emmerson, C.	Bellevue	**49
Elliott, D.	Michel, B. C.	**20
Ellis, W.	Nanton	*15
Evans, D.	Michel, B. C.	*1
Flint, W. G.	Canmore	**56
Finlayson, J.	Frank	**30
Fraser, Norman	Michel, B. C.	†1
Fraser, G. L.	Coleman	*1
Green, R.	Blairmore	**58
Graham, C.	Nanaimo, B. C.	†7
Givin, Homer Holt	Royal View	*57
Gray, David	Cochrane	*65
Henrietta, Chas. M.	Byseville, Ohio	**26
Heathcote, Elijah	Coal Creek, B. C.	**23
Hargreaves, James	Taber	**9
Hamilton, Wm. L.	Passburg	*4
Hardie, D. L.	Lethbridge	**2
Huntrods, E. S. F.	Taber	†3
Holden, Jas.	Bankhead	*14
Hamilton, Robert	Lundbreck	*4
Horne, Thomas	Coleman	*6
Harrison, Stephen	Lethbridge	*16
Hart, John	Edmonton	*23
Horne, Robert	Coleman	*12
Hargreaves, James	Taber	†48
Howells, Nathaniel	Bellevue	*64
Jones, Samuel A.	Lethbridge	**57
John, John	Fernie, B. C.	**44
Jones, David	Strathcona	*67
Keith, Thomas	Taber	*20
Kerr, Alex	Tonkin, B. C.	**27
Knox, Thomas K.	Coal Creek, B. C.	*28
Kellock, George	Coleman	*59
Little, John	Coalfields	**5
Livingstone, Robert	Lethbridge	**16
Lewellyn, D. R.	Michel, B. C.	**42
Little, Wm. F.	Canmore	†4
Lee, Robert John	Elcan	*56
Morris, James J.	Canmore	*3
Morris, Cyrus	Frank	**12
Manley, Henry Lewis	Fernie, B. C.	**41
Morton, T. R.	(Deceased)	**63
Mills, Thomas	Nanaimo, B. C.	**35
Marsh, John	Taber	†6
Moore, Samuel M.	Bankhead	*26
Maxwell, William	Pincher Creek	*27
Millar, Andrew A.	Edmonton	*54
McEvoy, James	Fernie, B. C.	**17
McVicar, Samuel	Frank	**59
McLean, Donald	Ladysmith, B. C.	**62

CERTIFICATES issued by Government of the North-West Territories
and by The Government of the Province of Alberta.

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NAME	ADDRESS	NO. OF CERT.
McMillan, J. H.	Lethbridge	*17
McLennan, J. A.	Strathcona	*39
McDonald, John R.	Medicine Hat	*29
Macauley, Donald A.	Coleman	*42
McCullouch, James	Corbin, B. C.	*41
McDonald, Duncan	Canmore	*60
O'Donnell, Thomas	Kipp	*61
Pearson, Robinson	Fernie, B. C.	**11
Parker, John L.	North Star	**25
Pearson, R. N.	Frank	**38
Powell, John W.	Coleman	**60
Quigley, James S.	Hillcrest	*21
Reynolds, E. E.	Lethbridge	**33
Richards, J. A.	Edmonton	**39
Russell, Thomas	Victoria	**35
Raisbeck, Luke	Taber	**47
Reed, Thomas	Northfield, B. C.	†5
Robertson, John	Frank	†2
Robertson, John	Lundbreck	*9
Richards, Clifton, C.	Bankhead	*36
Russell, John	Clover Bar	*44
Reid, John Callum	Lethbridge	*53
Roberts, Edward Iver	Strathcona	*55
Smith, Frank B.	Edmonton	**7
Stockett, Thos. R., Jr.	Nanaimo, B. C.	**10
Simister, Chas.	Fernie, B. C.	**21
Strachan, Robert	Fernie, B. C.	**31
Shepherd, F. H.	Victoria, B. C.	**34
Symons, C. C.	Coalfields	**37
Stockett, Lewis	Bankhead	**51
Sharp, Alex.	Rossland, B. C.	**53
Stirling, John T.	Edmonton	*8
Scott, Alex.	Strathcona	*5
Sparrow, Edwin	Lundbreck	*13
Scott, Andrew N.	Edmonton	*19
Shone, Samuel	Coleman	*33
Steven, Leonard C.	Coal Creek, B. C.	*31
Saville, Enoch O.	Taber	*45
Shaw, William	Canmore	*46
Stewart, Robert T.	Fernie, B. C.	*50
Shanks, John	Coal Creek, B. C.	*51
Stevenson, John	Lethbridge	*68
Thorne, Benj. L.	Hosmer, B. C.	*32
Thain, Harry S.	Lethbridge	*34
Thomas, John Ira.	Edmonton	*49
Thomas, Willis P.	Diamond City	*58
Thomas, Joseph David	Passburg	*66
Whiteside, D. E. S.	Coleman	**6
White, E. Proctor	Lethbridge	**8
Wyllie, John B.	(Deceased)	**13
White, Archibald	Taber	**15
Wilson, David G.	Hosmer, B. C.	**22
Wilson, Arthur R.	Lethbridge	**28
Wall, Wm. Hy.	Nanaimo, B. C.	**32
Williams, W. P.	Blairmore	**36
Wright, H. B.	Fernie, B. C.	**40
Wilkinson, George	Nanaimo, B. C.	**54
Weatherby, C.	Coleman	*2
Williams, T. H.	Taber	*10
Watters, John	Bankhead	*30
Wark, S. D.	Passburg	*37

CERTIFICATES issued by Government of the North-West Territories
and by The Government of the Province of Alberta.

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NAME	ADDRESS	NO. OF CERT.
PRT BOSSES		
Anderson, J.	Bellevue ...	*2
Aspinall, Francis	Bellevue ...	*27
Allen, Peter	Coleman	*72
Bastian, T. W.	Bankhead	**27
Bastian, J.	Taber	**21
Bowie, J.	Frank	*4
Bamling, J.	Diamond City ..	*44
Brockhouse, Israel Bertram ..	Milk River	*74
Chestnut, C.	Blairmore	‡30
Corkill, C.	Michel, B. C.	**13
Crowder, J.	Coleman	*10
Clay, E.	Oxville	*28
Clark, J. C.	Blairmore	*49
Clyne, J.	Canmore	*53
Clemenson, John	Bankhead	*58
Cooke, Joseph	Burmis	*66
Crowder, Harry	Coleman	*69
Coupland, George	Lundbreck	*77
Davies, D.	Coleman	**31
Duggan, R. G.	Taber	**19
Davis, A.	Lethbridge	**4
Dixon, S.	Lille	*24
Davies, S.	Coal Creek, B. C. ..	*18
Davies, J.	Coleman	*11
Dunn, J. P.	Strathcona	*9
Davis, J.	Lethbridge	*31
Davies, T.	Frank	*54
Emerson, C.	Bellevue	*3
Eccleston, W.	Michel, B. C.	*16
Fraser, G. L.	Coleman	**25
Flint, W. G.	Canmore	**16
Francis, J.	Taber	*29
Fox, A.	Taber	*42
Foster, W. R.	Michel, B. C. ..	*51
Green, R.	Blairmore	**17
Giffen, H. R.	Coalfields	**14
Gilliland, William	Strathcona	*61
Hall, Cliver	Bellevue	**26
Harvie, Robert	Lethbridge	*1
Hutchinson, A. M.	Coleman	*6
Horne, Robert	Coleman	*12
Horsewell, John	Cardiff	*34
Howells, Nathaniel	Michel, B. C.	*55
Hallworth, Albert	Bellevue	*65
Hamilton, Allan	Pincher Creek	*78
Heeley, William Grafton	Bickerdike	*80
Jones, Samuel A.	Lethbridge	**18
Johnson, Moses	Taber	*46
Jones, David	Strathcona	*48
Kerr, John	Coalfields	**33
Kellock, George	Coleman	*39
Kellock, James	Coleman	*82
Lowrie, Ralph	Frank	**34
Livingstone, Robert	Lethbridge	**6
Livingstone, John C.	Lethbridge	**5
Lee, Robert John	Grassy Lake	*56
Luck, George	Bellevue	*70
Musgrove, John	Canmore	**2
Musgrove, John	Canmore	‡9

CERTIFICATES issued by Government of the North-West Territories
and by The Government of the Province of Alberta.
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NAME	ADDRESS	NO. OF CERT.
Musgrove, William	Canmore	‡32
Miller, John K.	Bankhead	**29
Morris, John	Lundbreck	*8
Morgan, Daniel	Edmonton	*17
Moore, Thomas E.	Eyremore	*47
Miard, Harry E.	Coal Creek, B. C.	*64
Munro, William Kennedy	Blairmore	*76
McVicar, Samuel	Frank	**23
McKean, John W.	Lethbridge	**24
McGregor, Alex.	Frank	†1
McKay, Donald	Bankhead	*3
McLenhan, John A.	Strathcona	*33
McKelvie, James	Hosmer, B. C.	*43
McDonald, Duncan	Canmore	*60
McMillan, Donald	Pincher Creek	*71
MacDonald, James A.	Bellevue	*79
MacKay, Angus	St. Albert	*81
Nicol, James	Frank	*36
Ostheidt, Gus	Bankhead	**1
Oliphant, Joseph H.	Bellevue	*59
Phillips, Chas.	(Deceased)	**20
Pearson, W. G.	Frank	**15
Pearsons, T. Lloyd	Edmonton	*26
Pickles, Wm.	Edmonton	*35
Prentice, John	Lille	*45
Park, Stewart Gray	Lethbridge	*57
Parker, Levi	Bellevue	*68
Quigley, Daniel Hugh	Lethbridge	*73
Rice, Awrey	Frank	†2
Roberts, D. E.	Coleman	*14
Rankin, George	Michel, B. C.	*41
Roberts, Edward I.	Strathcona	*52
Scott, Hugh	Lethbridge	**7
Steele, Thomas	Coleman	**12
Sequin, Joseph A.	Estevan	**22
Sparrow, Edwin	Lundbreck	*7
Shone, Samuel	Coleman	*23
Shaw, William	Canmore	*21
Scott, Andrew N.	Edmonton	*19
Stewart, J. M.	Fernie, B. C.	*50
Sihvon, William	Bellevue	*40
Sloan, Thomas W.	Burmis	*67
Shaw, Thomas John	Canmore	*75
Thomas, David	(Deceased)	**28
Teppo, Herman	Bellevue	*15
Thomas, John	Diamond City	*30
Thain, Harry S.	Lethbridge	*32
Thomas, Joseph D.	Hosmer, B. C.	*37
Taylor, Tom	Hillcrest	*62
Taylor, George Warren	Lethbridge	*83
Williams, Thomas H.	Canmore	**8
Waite, Archibald	Taber	**10
Weatherby, Cory	Hillcrest	**11
Wilson, Wm. George	Coleman	†3
Whitelaw, Thomas	Coleman	*25
Watters, John	Bankhead	*22
Watkins, W. E.	Lille	*20
Watson, William	Coleman	*13
Wright, J. S.	Canmore	*38
Winter, Archibald	Strathcona	*63

CERTIFICATES issued by Government of the North-West Territories
and by The Government of the Province of Alberta.

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NAME	ADDRESS	NO. OF CERT.
FIRE BOSSES		
Anderson, J.	Frank	**13
Alderson, R. D.	Coleman	*17
Aspinall, Francis	Bellevue	*32
Ashurst, W.	Coleman	*82
Adlam, William	Hillcrest	*108
Archer, Roland	Hillcrest	*132
Bastian, T. W.	Bankhead	**30
Bansemmer, R.	Bankhead	*14
Barber, J.	Frank	*7
Burrows, C.	Frank	*40
Brownrigg, J. H.	Frank	*35
Brown, T.	Bankhead	*24
Blake, P.	Lundbeck	*23
Brovey, A. C.	Edmonton	*64
Boulton, W. E.	Bankhead	*48
Barnes, B. J.	Coal Creek, B. C.	*92
Besso, A.	Canmore	*80
Briscoe, Daniel	Hillcrest	*117
Blake, Henry	Bellevue	*133
Bradley, Thomas	Hillcrest	*138
Barber, James S.	Hillcrest	*144
Bovio, Michael	Bellevue	*146
Brown, Alan James	Cardiff	*163
Cawthorne, L.	Frank	**46
Chestnut, C.	Frank	**45
Churchill, J.	Blairmore	†28
Cowan, W.	Bankhead	**4
Cooke, J.	Bankhead	*4
Catchpole, C.	Three Hills	*2
Clark, J. C.	Blairmore	*33
Cole, J. J.	Bankhead	*66
Clyne, J.	Canmore	*65
Chestnut, C.	Blairmore	†28
Campbell, Kenneth S.	Edmonton	*102
Clemenson, Jno.	Bankhead	*105
Carson, James	Frank	*120
Crockett, Levi A.	Hillcrest	*131
Coupland, George	Bellevue	*148
Carson, George	Frank	*154
Crawford, George	Frank	*160
Coombs, Walter Percy	Taber	*164
Coupland, Edward	Lundbreck	*173
Charlton, Samuel	Hillcrest	*179
Davies, T.	Frank	**49
Duggan, R. G.	Taber	**27
Downs, T.	Canmore	**24
Davies, W. J.	(Deceased)	**16
Dixon, S.	Lille	*18
Duggan, E. J.	Taber	*41
Devonshire, G.	Canmore	*31
Downs, T.	Canmore	†6
Davies, Thos. Owen	Coleman	*109
Davidson, David	Edmonton	*170
Doodson, Robert	Coal Creek, B. C.	*177
Duthie, Alex Ferris	Pocahontas	*184
Eccleston, W.	Michel, B. C.	*20
Evans, H.	Taber	*94
Evans, D.	Frank	*83
Evans, Hugh	Lethbridge	*156

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NAME	ADDRESS	NO. OF CERT.
Fairhurst, H.	Lethbridge	**39
Ferguson, C. J.	Canmore	†4
Fraser, J.	Coleman	*8
Fox, A.	Taber	*55
Fowers, C. W.	Canmore	*50
Fiske, G. E.	Edmonton	*88
Fisher, Samuel	Passburg	*169
Ford, Allen	Burmis	*183
Giffen, H. R.	Coal Fields	**19
Gates, H.	Coleman	**26
Griffiths, E. H.	Canmore	**33
Gladwin, J.	Edmonton	*97
Gatiss, R.	Long Coulee	*85
Griffiths, T. J.	Lille	*77
Gillespie, John Maclare	Coleman	*111
Gilliland, William	Strathcona	*123
Gwillham, David J. M.	Hillcrest	*130
Gregory, John B.	Passburg	*128
Garrett, John	Lille	*147
Griffiths, John Thomas	Lille	*168
Garbett, Richard	Michel, B. C.	*180
Holmes, G. E.	Fernie, B. C.	**15
Hood, Andrew	Frank	**20
Hadfield, Jno.	Canmore	**23
Harrison, Thomas	Bankhead	**29
Haines, Thomas	Coleman	**37
Harvie, Robert	Lethbridge	**40
Hallworth, Albert	Bellevue	*52
Hayes, Robert	Lundbreck	*60
Harvie, Jno.	Taber	*68
Henderson, W.	Minott	*61
Higgins, Alfred	Bankhead	*25
Humble, Stephen T.	Bellevue	*29
Hamilton, Chas.	Edmonton	*36
Hilling, James	Coleman	*43
Hannen, James	Canmore	*1
Holden, James	Bankhead	*13
Hadfield, John	Coleman	†21
Hutton, Isaac	Bellevue	*99
Hartley, William	Bankhead	*110
Hill, James	Royal View	*114
Hulme, Charles	Hillcrest	*124
Henderson, James	Reid Hill	*134
Hutton, John	Bellevue	*135
Henderson, Samuel	Reid Hill	*136
Halliday, George	Champion	*155
Hughes, William Robert	Lille	*181
Hutton, George	Bellevue	*186
Ironmonger, John	Hillcrest	*145
Jones, Evan	Coalfields	**12
James, Joseph	Frank	**25
Jones, Samuel A.	Lethbridge	**17
Jones, Erskine	Coalfields	**47
James, Henry	Coleman	*53
Jones, David	Edmonton	*69
Jones, Jack	Cardiff	*127
Kerr, Wm. R.	Coleman	*89
Kirkeberg, Henry S.	Michel, B. C.	*87
Kerr, Robert	Lundbreck	*76
Kerr, Robert T.	Passburg	*75
Livingstone, Robert	Lethbridge	**7

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NAME	ADDRESS	NO. OF CERT.
Livingstone, Jno. C.	Lethbridge	**18
Learmonth, A. J.	Lundbreck	*42
Love, William	Edmonton	*86
Lamont, David	Frank	*98
Letcher, John J.	Hillcrest	*149
Leblanc, Emile	Coleman	*153
Littler, Robert	Michel, B. C.	*166
Loxton, George	Fernie, B. C.	*176
Littler, John	Bankhead	*190
Musgrove, William	Canmore	**9
Mattson, Matt.	Frank	**34
Morris, David	Edmonton	*45
Machin, J. C.	Strathcona	*46
McCore, Thomas E.	Eyremore	*56
Mather, Thomas	Taber	*96
Morgan, Owen	Coleman	*143
Munro, Wm. Kennedy	Lille	*150
Muir, David	Lundbreck	*151
Miller, Walter	Bellevue	*159
Moore, James H.	Coleman	*167
Massey, Harry	Michel, B. C.	*172
Murray, John	Lillie	*174
Mason, Samuel	Taber	*187
Morrison, Malcolm	Coleman	*189
McKay, Jno. James	Lethbridge	**5
McKinnon, H. G.	Canmore	**36
McGregor, Alex.	Frank	**41
McCulloch, Alex.	Lille	**43
McDonald, J. A.	Blairmore	**44
McVey, William	Frank	*39
McLeary, Stewart	Lethbridge	*58
McMillan, Wm. D.	Lethbridge	*72
McKinnon, A. J.	Canmore	*62
McGarry, Martin	Michel	*59
McLenhan, John A.	Strathcona	*51
McDonald, James A.	Lille	*91
McMillan, Donald	Coleman	*107
McDonald, Duncan	Canmore	*112
McDonald, Hector	Bankhead	*115
McDonald, Wm. C.	Lethbridge	*122
McDevitt, James J.	Tofield	*129
McGladrie, John	Lille	*152
McMullin, Joseph	Hillcrest	*171
Nelson, Horatio	Lundbeck	*11
Nanson, Thos. H.	Canmore	*15
Nicol, James	Frank	*34
Oliphant, J. H.	Frank	*26
Oliphant, Jno.	Bellevue	*79
O'Donnell, Thomas	Kipp	*139
Phillips, Chas.	(Deceased)	**14
Prentice, John	Lille	*67
Powell, Albert E.	Clover Bar	*71
Pickering, Gabe	Taber	*104
Parker, Levi	Bellevue	*100
Pounder, George	Pincher Creek	*84
Picton, William	Frank	*78
Pickering, Gabe	Taber	*104
Parry, Thomas	Hillcrest	*119
Park, Stewart G.	Lethbridge	*121
Patterson, John	Hillcrest	*126
Picton, Daniel	Passburg	*178

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NAME	ADDRESS	NO. OF CERT.
Quigley, Daniel H.	Lethbridge	*157
Rice, Awrey	Frank	**48
Rawson, Thos. Samuel	Frank	*1
Rose, Walter	Lundbreck	*54
Roberts, William	Strathcona	*95
Robinson, Jno. Herbert	Hillcrest	*106
Rowbotham, Wm. Henry	Royal View	*116
Roberts, Ebenezer	Passburg	*118
Richardson, Alfred	Lethbridge	*125
Richards, George	Coleman	*137
Roberts, John	Nelson, B. C.	*140
Reid, James	Taber	*158
Richards, Evan	Cardiff	*162
Richards, Samuel	Corbin, B. C.	*175
Rawlinson, Rowland	Burmis	*182
Rayner, Frederick	Frank	*188
Scott, Robert	Lethbridge	**6
Scott, Hugh	Lethbridge	**8
Sedlock, Joseph	Canmore	**22
Smith, Robert	Canmore	**32
Smith, Hugh	Canmore	**35
Scott, John	Lethbridge	**38
Spencer, W. J.	Bankhead	**51
Salmond, Jas. M.	Bankhead	†6
Sparrow, Edwin	Frank	†2
Smith, Ralph	Canmore	*3
Singleton, Robert	Lundbreck	*47
Schmidt, O. P.	Edmonton	**44
Scott, Andrew N.	Edmonton	*28
Sihvon, William	Bellevue	*27
Smith, A. J. P.	Bellevue	*103
Shaw, Thomas Jno.	Canmore	*113
Scott, Alexander	Pocahontas	*185
Taylor, William	Lethbridge	**10
Turner, Samuel H.	Frank	**21
Thomas, David	Bankhead	†31
Teppo, Herman	Bellevue	*19
Thompson, Tomas	Lundbreck	*16
Tonge, Thomas	Lundbreck	*5
Taylor, Thomas	Lundbreck	*30
Thomas, John J.	Frank	*74
Turner, Samuel H.	Frank	†22
Thompson, Thos.	Coleman	*93
Thomas, Jos. D.	Frank	*81
Thomson, Thos. Wilson	Bankhead	*161
Thomson, Joseph	Coleman	*165
Vola, Serafino	Canmore	*63
Watkins, W. Ed.	Canmore	**1
Wilson, John	Canmore	**2
Watkins, John W.	Canmore	**3
Waite, Archibald	Taber	**11
Webb, James F.	Canmore	**42
Watters, John	Bankhead	†5
Wilson, William Geo.	Coleman	†3
Wright, John S.	Canmore	*12
Welsh, William	Lundbreck	*9
Willmot, William	Canmore	*38
Wrigley, Walter	Frank	*37
Weston, Thomas	Strathcona	*73
Watters, A. G.	Bankhead	*49
White, Harry	Frank	*90

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NAME	ADDRESS	NO. OF CERT.
Young, Thomas	Taber	*57
Young, Samuel	Cardiff	*101

*Certificates issued by Government of the Province of Alberta under The Coal Mines Act.

†Certificates issued by Government of the North-West Territories under The Coal Mines Regulation Ordinance.

**Certificates issued by the Government of the Province of Alberta under the Coal Mines Regulation Ordinance.

‡Certificates issued by the Government of the North-West Territories and by the Government of the Province of Alberta under the Coal Mines Act being duplicate certificates.

EDMONTON, March 1st, 1912.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

Sir,—As Provincial Inspector of Mines, I have the honour to submit herewith my annual report for the year ending December 31st, 1912.

Owing to the suspension of work for a period of practically eight months during the past year, due to a strike of the miners, very little development work has been done in the districts in the southern part of the Province. It will have been noted that although the output of bituminous coal was decreased by 65.74 per cent. below that of the year 1910, and that of anthracite coal by 69.39 per cent. below that of the previous year, there was an increase of 9.87 per cent. of the output of lignite coal for the year 1911 over that of the year 1910. This is principally due to the large number of new mines which have been opened up, particularly in the Edmonton district.

In the Crow's Nest Pass district, particular attention has been paid to the method of shot-firing and the quality of explosives used. Practically all shots are fired in this district by means of the electric battery, and only powder which is shown on the British Permitted List is allowed to be used. Two rather serious accidents occurred at the mine operated by the West Canadian Collieries, Limited, at Blairmore, due to the use of "Samsonite." A shot had been fired which apparently exploded only a portion of the powder in the hole, and when the miner had gone back to the place he must have struck the unexploded part of the powder with the result that it exploded and severely injured two men. As this had happened on several occasions previously, although without serious consequences, the matter was investigated and it was decided that, owing to the high temperature (52deg F.) at which "Samsonite" freezes and owing to its extreme liability to explode when in this state, it was too dangerous to use and consequently its use has been entirely prohibited.

Shot-firing in the coal has also been entirely discontinued in the mine operated by the International Coal & Coke Company, Limited, at Coleman, and reduced considerably in the other mines in this district. The consequence is that greater safety is acquired and a better marketable coal produced.

In the Lethbridge district, a number of new mines have been opened up, and a considerably increased output may be expected during the present year.

In the Calgary district, a considerable amount of prospect work has been done, particularly around Canmore. A number of new mines have also been opened up on a small scale west of Carstairs, where coal of a semi-bituminous nature is being mined.

In the Edmonton district also a large amount of development had taken place during the past year, particularly in the district west of Edmonton and tributary to the Grand Trunk Pacific Railway. The principal mines in this district are the mines operated by the Jasper Park Collieries, Limited, the Yellow Head Pass Coal & Coke Company, Limited, the Pacific Pass Coal Fields, Limited, and the Mountain Park Coal Company, Limited. The steel was laid to the Jasper Park Collieries, Limited, about the middle of the summer, when they commenced shipping in the neighborhood of 500 tons per day.

It is expected that the steel will be laid to the Yellow Head Pass Coal & Coke Company's mine about March of this year, and to the Pacific Pass Coal Fields, Ltd., property about August, after which a large output from these mines may be expected.

The consumption of bituminous coal in the Edmonton district at present is estimated to be about 3,000 tons per day. This is confined to railroads and a few manufacturing concerns. The domestic trade is supplied from the lignite mines surrounding Edmonton and along the Lacombe and Wetaskiwin branches of the Canadian Pacific Railway. Taking into consideration the additional railroads now building and those projected, together with probable factory consumption, a very largely increased market for both lignite and bituminous coal mined in this field may be looked for.

I am pleased to report a reduction in the number of fatal accidents that have occurred during the past year. It will be noticed from the tables referring to accidents that while in the year 1910 there were 49,783 tons of coal mined per fatal accident, during the past year there were 242,080 tons of coal mined per fatal accident.

There are 2,516 lamps of the Wolfe pattern in use in the Province. These lamps are all fitted with internal igniters and magnetic locks.

At the mines operated by the Canmore Coal Company, Ltd., at Canmore, 511 lamps of the Clanny type are in use, and at the mines operated by the Canadian Coal Consolidated, Limited, at Frank, 73 lamps of the Marsaut type are in use. I am pleased to report that these lamps are gradually being replaced by lamps of a more approved pattern.

In the lignite field, 26.32 per cent. of the total output was mined by machinery. No coal cutting machinery is used in the bituminous or anthracite fields.

The following is a summary of the plants installed at the more important mines, with a general description of the development work done during the past year:

CROW'S NEST PASS DISTRICT

MR. FRANCIS ASPINAL, DISTRICT INSPECTOR OF MINES,
LETHBRIDGE.

International Coal and Coke Co., Ltd., Coleman.

Authorized Capital: \$3,000,000.00.
President: A. C. Flumerfelt.
Vice-President: H. Davidson.
Managing Director: R. W. Riddell.
Directors: W. G. Graves, C. S. Houghton and C. E. McBroom.
Secretary: W. G. Graves.
Treasurer: John McKeagan.
Head office: Spokane, Wash., U. S. A.
Mine Office: Coleman, Alberta.
General Manager: O. E. S. Whiteside.
Mine Manager: W. A. Davidson.
Mining Engineer: D. A. Macauley.
Master Mechanic: James Scott.
Pit Bosses: David Davies, Wm. Watson and George Kellock.
Fire Bosses: J. J. Wilson, Owen Morgan, E. Roberts and Jas. Kellock.

Two seams, No. 2 and No. 4, are being mined on this property. The main gangway in No. 2 seam is driven a distance of 11,000 feet and the gangway in No. 4 a distance of 8,000 feet. The method adopted is by driving rooms up the pitch to the outcrop and extracting pillars by the retreating method in panels of ten pillars at one time, leaving a barrier pillar 50 feet thick on each side of each panel.

On No. 4 seam about 1,500 feet from the mine entrance, a slope is in the course of being sunk, and is now down a distance of 60 feet. At the top of the slope a concrete arch 125 feet long has been built to carry the track passing over the slope to the inner workings. In neither of these seams are shots allowed to be fired. The result is that a better marketable coal is produced with increased safety. Shots when fired in rock are fired by means of the electric battery.

During the year the gangway in No. 2 seam has been driven 625 feet and in No. 4 seam a distance of 400 feet.

The following additions have been made to the plant: One 40 h.p. double cylinder hoisting engine for slope on No. 4 seam, one 22"x14"x22" air compressor with duplex steam and compound air, two 72"x18 ft. stationary return tubular boilers, and 200 mine cars with a capacity of 2 tons each.

McGillivray Creek Coal and Coke Co., Ltd., Coleman.

Authorized Capital: \$3,000,000.00.
President: L. A. Campbell.
Vice-President: Jas. A. Nowell.
Directors: L. A. Campbell, Jas. A. Nowell, T. M. Paine, Fitzhugh Burns, and W. E. Cullen, Jr.
Secretary-Treasurer: W. E. Cullen, Jr.
Head Office: Spokane, Wash., U. S. A.
Mine Office: Coleman, Alta.

General Manager: J. K. Cram.
 Mine Manager: Thos. Horne.
 Mining Engineer: J. A. Robert.
 Master Mechanic: T. D. Stockdale.
 Fire Bosses: Thos. Parry, James Moore, and E. Leblanc.

This property is situated at Carbondale, about one mile west of the town of Coleman, the seams being a continuation of the Coleman series. A slope is sunk on the property about two miles from the Canadian Pacific Railway, and the tippie which is situated on the Crow's Nest Branch of this railway is connected with the mine by means of an electric haulage. The tippie is built to handle 2,000 tons per day.

A machine shop 100 feet by 30 feet has been built of stone and fully equipped, also a power-house 80 feet by 56 feet, built of stone and equipped with two 150 h.p. Watrous boilers and one 150 k.w. direct current generator, direct-connected to engine.

The slope is sunk on the pitch of the seam a distance of 390 feet and gangways driven north and south from it. A counter slope is also sunk and is used as a travelling way for the workmen, also for a pipe line for conveying steam to pumps. A pump with a capacity of 200 gallons per minute has been installed and a reserve pump with a capacity of 150 gallons per minute is kept in case of emergency.

During the past year a box car loader was installed and the entry to the north driven 750 feet. The company are now in a position to increase the output of coal considerably if necessary.

West Canadian Collieries, Ltd., Blairmore

Authorized Capital: \$5,600,000.00.
 President: Alphonse Wicart.
 Directors: John Robert Tenant, Arthur A. Beaumann, Francois Lefebvre, Edmond Ory, Edouard Decoster, Baron Rene de la Grange O'Tard, Edouard Carlier, and Jean Cavois.
 Secretary-Treasurer: Andre Chesquier.
 Head Office: Lille, France.
 Mine Office: Blairmore.
 General Manager: R. W. Coulthard.
 Mining Engineer: L. P. Robert.

Blairmore Mine

Mine Manager: Raoul Green.
 Pit Boss: Chas. Chestnut.
 Fire Bosses: W. Hughes, D. Lamont, W. McVey, W. K. Munro, S. Turner, J. J. Letcher and Jas. Barber.

This company is working one seam of coal, the system formerly adopted of working rooms up the pitch being discontinued and the angle system instituted. A pair of angles 10 feet wide are driven on a 30 degree pitch and rooms 15 feet wide opened off them. As a result of this new system of mining a better marketable coal with increased safety has been obtained.

The plant consists of the following: A power-house 24 ft. by 52 ft., equipped with a 10" by 10" Robb high-speed engine; a 75 k.w. alternating machine running at 2,300 volts; one 18" by 20" Robb high-speed engine for working a 100 k.w. and a 75 k.w. alternating machine; a boiler-house 30ft. by 40ft. with two 150 h.p. return tubular Robb boilers working at 125 lbs. steam pressure; a

tipple equipped with creeper chain and Phillips automatic cross-over dump with bar screens and picking tables; a lamp house 16 ft. by 18 ft., built of concrete; a wash-house built of concrete with 100 individual steel lockers; a stable to accommodate 24 horses; railway sidings to accommodate 180 cars; and a Fairbanks steel scale of 100 tons. An electric light system has been installed along the main entry. Wolfe lamps are used throughout the mine.

Bellevue Mines

Mine Manager: J. R. McDonald.

Pit Bosses: A. Hallworth and D. McKay.

Fire Bosses: H. Blake, G. Crawford, J. Clarke, J. Hutton, J. K. Millar, M. Mattson, J. A. McDonald, Levi Parker, H. White, C. Hulme.

This property is opened up by means of a rock tunnel driven across the measures intersecting the various coal seams. Main entry on No. 1 seam is driven a distance of 10,000 feet. Rooms are driven up the pitch 20 feet in width and pillars 30 feet wide left to support the roof. The thickness of this seam varies from 12 to 16 feet. Chutes Nos. 45 and 81 are driven through to the surface. At chute No. 81, a fan is erected to ventilate the mine. Chute No. 45 is used for dumping coal at the surface from No. 2 mine, which is opened up a short distance from the outcrop of No. 1 seam. Safety lamps of the Wolfe type are used throughout both mines, and all shots are fired by electric battery.

During the year very little development work has been done inside the mine. The plant consists of the following: One four stage high pressure air compressor, compressing air to 1,050 lbs. per square inch for supplying power for locomotives for underground haulage. One low pressure air compressor, 300 feet capacity; one 250 k.w. generator, alternating current, driven by a Robb engine; one Ridgeway engine direct-connected to 150 k.w. direct current motor and connected by belt to a 100 k.w. alternating machine; one Christy box car loader, electrically driven; four compound air locomotives for underground haulage; four Watrous 150 h.p. boilers; two Robb 150 h.p. boilers, all of the return tubular type. Steel tipple electrically driven and lighted, fully equipped with screens, picking belt, dump, car haul, etc., one Clifford-Cappel fan 12 ft. by 5 ft. electrically driven by a 150 h.p. motor with a capacity of 150,000 cubic feet of air per minute, one Sirrocco fan electrically driven with a capacity of 100,000 cubic feet per minute; one Murphy fan electrically driven with a capacity of 30,000 cubic feet per minute; 150 steel cars each with a capacity of 3 tons each, 60 wooden cars with a capacity of 2 1-2 tons each, a machine shop fully equipped, a wash-house fitted with 200 steel lockers, shower bath, steam heated and supplied with hot and cold water; a carpenter shop, a blacksmith shop and a concrete lamp-house. The power-house and boiler-house are built of stone with a sheet iron roof.

Lille Mine

Mine Office: Lille, Alta.

Mine Manager: W. P. Williams.

Mining Engineer: L. P. Roberts.

Master Mechanic: W. Searle.

Fire Bosses: J. Garrett, J. McGladrie, J. T. Griffiths, J. Murray and W. R. Hughes.

Pit Boss: S. Dixon.

This mine is situated at Lille, and connected to the Crow's Nest branch of the Canadian Pacific Railway with a spur track from Frank 5 1-2 miles long. One seam of coal is being mined, but main gangways are being driven in No. 2 seam and connected to No. 1 seam by rock cross-cuts about 50 feet in length driven on a 35 deg. pitch. The coal is mined by the room and pillar system across the pitch, rooms 20 feet wide being driven, leaving 30 feet pillars. Systematic timbering is in use, timbers being set in rooms at distances of 4 feet apart. As the roof in this seam is of a tender nature, this method has proved to be efficient, both regarding economy and safety.

Hillcrest Collieries, Limited, Hillcrest

Authorized Capital: \$3,000,000.00.

President: C. B. Gordon.

Directors: C. B. Gordon, C. Meredith, H. S. Holts, W. D. Mathews, H. P. Davis, J. S. C. Fraser, C. R. Hamilton, J. M. Mackie, G. H. Duggan, C. P. Hill and John Brown.

Secretary: J. M. Mackie.

Head Office: Montreal, Que.

Mine Office: Hillcrest.

General Manager: John Brown.

Mine Manager: J. S. Quigley.

Mining Engineer: William Hutchinson.

Master Mechanic: Richard Letcher.

Fire Bosses: Walter Rose and William Adlam.

Pit Bosses: Thos. Taylor and Dan Briscoe.

The property operated by this company is situated at Hillcrest, about one mile southeast of Hillcrest station, and connected to the Crow's Nest branch of the Canadian Pacific Railway by a spur line.

About 1,000 feet east of the mine entrance, a new rock tunnel 13 ft. by 7 ft. and 700 feet in length has been driven across the measures to connect with a slope which is sunk to a depth of 1,200 feet across the pitch. Size of slope is 11 ft. by 8 ft. Another slope on the pitch of the seam is in the course of being sunk and is now down a distance of 300 feet. The average thickness of seam is 14 feet, and it is expected when these slopes are opened up, the output will be considerably increased.

A tippie built of steel fully equipped with modern machinery, and fitted with a retarding conveyor capable of handling 2,000 tons per day, is in the course of erection.

A power-plant has recently been erected, equipped with six G. & W. 150 h.p. boilers, two feed water pumps, one four stage air compressor, compressing air to 1,000 lbs. per square inch, one 150 k.w. generator with high speed engine and one 22"x42" Litchfield hoisting engine for hauling coal out of new slope.

The buildings to accommodate boilers, machinery, etc., are built of concrete, with concrete floor. A concrete wash-house fitted with steel lockers, hot and cold water, and steam heated, has also been erected.

Safety lamps of the Wolfe type fitted with internal igniters are in use throughout the mine.

Canadian Coal Consolidated, Limited, Frank

Authorized Capital: \$2,000,000.00.
 President: Maurice Tilloy.
 Directors: F. Colomer, H. Buchet, F. Leconte, Edmond Paix,
 Jacques d'Arlingcourt, General Avon, Jaques Bernard, George
 Cahon, Leon Clerc, Leon Motts, Jean Saint-Girons.
 Secretary: Paul Buisson.
 Treasurer: C. Tompkins.
 Head Office: Paris, France.
 Mine Office: Frank, Alta.
 General Manager: A. A. Muller.
 General Superintendent: A. Rotteleur.
 Mine Manager: S. Shone.
 Mining Engineer: A. Rotteleur.
 Master Mechanic: J. Verden.
 Pit Bosses: Thos. Davies and James Nichol.
 Fire Bosses: Jas. Finlayson, Levi Crockett, James Reid, Charles
 Burrows and J. J. Thomas.

This company is operating both the shaft and the old mine. In the old mine, a slope is sunk on a 30deg. pitch for a distance of 500 feet. The north side entry is driven a distance of 850 feet, but is now abandoned. The south side entry is driven a distance of 1,000 feet. The angle method is being employed and pillars 30 feet thick left standing. In order to develop an increased output, the company has recommenced the sinking of the slope to a lower level.

The coal is hoisted out of the slope by means of an electric hoist placed at the entrance to the mine and hauled from top of slope to tippie by means of gasoline locomotives. This method of haulage, however, has only met with indifferent success.

At the shaft mine, the angle system has been abandoned, and a modification of the old breast system, formerly employed here, has been commenced. A short distance from the shaft bottom on the south side, a slope is being sunk and when this is down a certain distance the intention is to drive an entry to the north, to a point directly underneath the shaft and drive up to connect with the present shaft bottom.

Monobel is used for blasting coal in both mines, and all shots are fired electrically. Safety lamps of the Wolfe pattern are used in the old mine, and of the Marsaut type in the shaft mine.

The power-house is situated at the shaft mine and equipped with one 500 k.w. alternating generator direct connected, 3 phase 60 cycles, 2,300 voltage. This generator is driven by a compound non-condensing engine 24"x36"x24". A simplex engine 8"x8", and dynamo 25 k.w. 125 volts, direct current have also been installed. One alternating machine 100 k.w. 3 phase, 50 cycles, 500 volts, driven by a non-condensing 15" x 14" engine; one alternating generator 75 k.w. 3 phase, 60 cycles, 2,300 voltage, to duplicate the first 2,300 volt machine; one air compressor 300 feet free air capacity, one double cylinder hoist 24" x 36" with 8 ft. drum for hoisting coal up the shaft, six Babcock & Wilcox water tube boilers 250 h.p. each, with a pressure of 160 lbs. per square inch, steam header 12" diameter and one 75 h.p. alternating motor to drive the tippie machinery, also a motor to drive saw-mill. A 150 h.p. motor is coupled to ventilating fan at the old mine. Three pumps, one 250 gallons capacity, one 200 gallons capacity and one 150 gallons capacity, all steam driven, are installed at the bottom of shaft. Two four-stage turbine pumps

electrically driven with a capacity of 150 gallons per minute each are installed at the bottom of slope in the old mine.

Maple Leaf Coal Company, Bellevue

Authorized Capital: \$500,000.00.
 President: D. M. Drumheller.
 Vice-President: A. J. Cooledge.
 Directors: D. M. Drumheller, A. J. Cooledge, R. J. Davenport, and M. Opphemien.
 Secretary: C. P. Lund.
 Treasurer: A. Klum.
 Head Office: Spokane, Wash., U. S. A.
 Mine Office: Bellevue, Alta.
 General Manager: J. McCulloch.
 Fire Bosses: N. Howell, and M. McGary.

This company is operating one seam of coal about one and one-half miles east of Hillcrest station, on the Canadian Pacific Railroad. The seam is opened up from a rock tunnel cross-cutting Nos. 1, 2 and 3 seams. A slope has been sunk on No. 1 seam for a distance of 400 feet and entries turned off.

The company have installed one 150 h.p. return tubular boiler, one 75 h.p. hoist for hoisting coal out of slope, one Sirrocco fan with a capacity of 50,000 cubic feet per minute, one high speed engine of 125 h.p. to drive one 75 k.w. generator, 150 ton track scales, one wash-house, steam heated, fitted with hot and cold water, one air compressor 500 feet capacity to operate pumps in slope. A stable and granary have been built, also boiler-house, power-house and lamp-house.

The Leitch Collieries, Limited, Passburg

Authorized Capital: \$1,000,000.00.
 President: Malcolm Leitch.
 Directors: G. O. Aulsebrook, F. C. Baker, J. C. Drewry, A. M. Fraser, A. K. Leitch, J. D. McLeod, D. E. Williams, J. G. Turiff, J. D. McBride and W. G. McMahan.
 Secretary: Ed. Holroyde.
 Treasurer: Ed. Holroyde.
 Head Office: Winnipeg, Man.
 Mine Office: Passburg, Alta.
 General Manager: W. L. Hamilton.
 Mine Managers: W. L. Hamilton and Jos. Thomas.
 Mining Engineer: W. A. Barnes.
 Fire Bosses: Sam. Fisher, Jno. Roberts, H. Gates, Geo. Richards and W. Picton.
 Pit Boss: W. G. Pierson.

This company is working their No. 1 mine, situated at Passburg, about half a mile south of the Crow's Nest Pass branch of the Canadian Pacific Railway. The seam is worked on the angle system, angles being driven across the pitch with an inclination of 35deg. and rooms turned off.

During the year, a 100 h.p. boiler, a picking belt and a wash-house, were installed at this plant.

About two miles northeast of No. 1 mine is situated No. 2 mine. The main entry of this mine has been driven a distance of 3,000 feet on No. 2 seam. At two points of this entry, rock cross-cuts have been driven, intersecting Nos. 1, 3 and 4 seams. At the present time No. 2 seam is the largest producer, but Nos. 3 and

4 will in the course of a short time also be in a position to produce large outputs. The seams on this property average from 6 to 8 feet in thickness.

From No. 2 seam a rock tunnel is driven to the surface for ventilation, and a fan installed capable of producing 100,000 cubic feet of air per minute, and is arranged so that it can be used either as a forcing or exhausting fan. As the mine is a considerable distance from the tippie, rope haulage is used to haul the coal from the mine to the tippie.

The company have now completed the installation of 100 coke ovens of the rectangular pattern, washery of the Luhrig type, together with electrical machinery for conveying coal to the coke ovens. A tippie has been erected fitted with bunkers, shaker screens, picking-belt and elevator.

A large concrete power-house has been built, providing room for four 150 h.p. boilers, one 250 k.w. generator and engine, machine shop and locomotive stalls.

Safety lamps of the Wolfe type, fitted with internal igniter are in use throughout the mine. Monobel only is used for blasting in coal.

Davenport Coal Company, Limited, Burmis

Authorized Capital: \$500,000.00.

President: F. H. Mason.

Directors: F. H. Mason, W. Clayton Miller, J. A. Finch, C. Hussey and Charles P. Lund.

Secretary-Treasurer: Charles Hussey.

Head Office: Spokane, Wash, U. S. A.

Mine Office: Burmis, Alta.

General Manager: E. T. Fitzsimmons.

Mine Manager: L. C. Stevens.

Master Mechanic: George Hope.

Fire Bosses: Allan Ford, Thomas Sloan and James Carson.

Pit Boss: L. C. Stevens.

This company is operating mines situated about half a mile from the Crow's Nest Pass branch of the Canadian Pacific Railway, at Burmis. The No. 5 seam is opened up by means of a tunnel driven through gravel. To the west of this seam, a rock tunnel has been driven intersecting Nos. 1, 2 and 3 seams. At the present time most of the coal is produced from No. 2 seam, but in order to increase the output, a rock cross-cut has been commenced to be driven from No. 5 to No. 2 seams.

During the past year there have been installed two 30 h.p. boilers of the locomotive type; a Sirrocco fan 54" x 54" with a capacity of 50,000 cubic feet per minute; one air compressor with a capacity of 500 cubic feet free air per minute; also a 100 ton Fairbanks track scale. A number of cottages to accommodate the workmen have also been erected.

P. A. Paulson's Mine, Section 29-7-4-5.

Head Office: Spokane, Wash., U. S. A.

Mine Office: At the mine on section 29.

Mine Manager: W. G. Wilson.

This mine is situated about three miles south of Coleman and has not got railway facilities.

A slope is in the course of being sunk from the surface to the coal, and is now down a distance of 80 feet.

The plant consists of a hoisting engine, a vertical boiler and a pump.

Western Coal and Coke Company, Pincher Creek

Authorized Capital: \$3,500,000.00.
President: E. B. Greenshields.
Directors: E. B. Greenshields, Hon. R. McKay, H. O. Levett, Chas. Fergie, J. W. McConnell and N. Curry.
Secretary-Treasurer: George V. Cousins.
Head Office: Montreal, Que.
Mine Office: Beaver Mines, Pincher Creek.
General Manager: Sam. McVicar.
Mining Engineer: Chas. Fergie.
Mining Engineer: A. W. Hawes.
Master Mechanic: Simon McDonald.
Fire Bosses: T. O. Davis, D. McMillan and D. Muir.

During the past year this company has done a considerable amount of development work.

In No. 1 mine main and counter gangways have been driven 1,743 feet on the strike of the seam.

In No. 2 mine, two slopes 40 ft. apart have been driven on the dip of the seam to a distance of 1,028 feet, from the bottom of which two gangways have been driven north and south 1,080 and 1,040 feet respectively. At a point 260 feet down the slope, a gangway and counter have been driven on the strike of the seam for a distance of 2,206 feet. A gangway in the opposite direction has been driven 860 feet to the surface. This is mostly a rock tunnel and is to be used as the main haulage road, being driven at tippie level.

A 100 h.p. Robb-Mumford Brady boiler; a Walker fan 8 1-2 feet diameter to produce 85,000 cubic feet per minute with a 2" W. G. belt driven from a horizontal Walker engine; a Sullivan straight line compressor, capacity 706 cubic feet of free air per minute, have been installed. In the mine a horizontal Cameron pump with a capacity of 100 gallons per minute has been installed. A hoisting engine is ready to be installed, size 15" x 24", duplex gear, double drums and built by Fraser and Chalmers.

Only Wolfe lamps are used throughout the mine.

New frame buildings built during 1911 comprise, 10 cottages, engine-house, fan-house, wash-house and stables.

There are six other small mines operating in the Pincher Creek district. Three of these are operated by John Morris, Thomas Tonge and Wm. Macfarlane, and are situated about four miles from Pincher Creek and are merely prospects as yet, employing each about two men and producing one or two tons per day each. The other three mines are situated some 12 miles southwest of Pincher Creek and are mining a seam of bituminous coal. These places have produced an output of about 30 tons each per day during the busy season, which is sold to farmers in the vicinity or hauled to Pincher Creek. The operators are J. H. Owen, A. D. McKinnon and A. Link.

Breckenridge and Lund Coal Company, Limited, Lundbreck.

Authorized Capital: \$500,000.00.
 Directors: J. Breckenridge, P. Lund, T. D. Robinson, C. Cook and
 M. B. Peacock.
 President: Harold Darling.
 Secretary-Treasurer: H. F. Breckenridge.
 Head Office: Lundbreck, Alta.
 Mine Office: Lundbreck, Alta.
 General Manager: H. F. Breckenridge.
 Mine Manager: L. C. Stevens.
 Master Mechanic: R. Brown.
 Pit Boss: John Prentice.
 Fire Bosses: E. Coupland, J. Hilton, G. Carson and J. Barber.

At the beginning of 1911 the slope at this mine was down 200 feet. During the past year this has been driven another 160 feet. Gangways have been driven north and south of No. 1 seam 1,300 feet and 500 feet respectively.

Three cross-measure tunnels have been driven from No. 1 seam to No. 2 seam. These each average about 60 feet in length. Gangways have been driven in No. 2 seam north and south 800 feet and 360 feet respectively.

On the surface the tippie has been completed and equipped for an output of 400 tons per day, and built for three sizes of coal. A picking-belt 4 feet wide and 40 feet in length, and a revolving screen 4 feet diameter and 12 feet in length have been erected. A small Waddle fan, belt driven, has been installed and a wash-house and store-room built.

The Galbraith Coal Company, Limited.

Authorized Capital: \$250,000.00.
 President: Andrew Laidlaw.
 Directors: Andrew Laidlaw, Mose Oppenheimer, J. H. G. Willoughby,
 W. Richardson and J. G. Short.
 Secretary: J. G. Short.
 Treasurer: Chas. C. Moore.
 Head Office: 222 Columbia Building, Spokane, Wash.
 Mine Office: Lundbreck, Alta.
 General Manager: Chas. C. Moore.
 Mine Manager: E. Sparrow.
 Master Mechanic: J. D. McDonald.
 Fire Bosses: R. Hays and R. Heap.

No additions to the plant have been made during the past year at this mine. Only one seam was worked. The main gangway has been driven 650 feet to the boundary and most of the coal extracted. This mine is now closed.

Carbon Hill Coal and Coke Company

Authorized Capital: \$2,500,000.00.
 President: H. W. Wright.
 Directors: H. W. Wright, J. F. Edwards, F. B. Gregg, Wm. Watson,
 and F. H. Sannuis.
 Secretary-Treasurer: J. F. Edwards.
 Head Office: 748-750 Payton Building, Spokane, Wash., U.S.A.
 General Manager: F. O. Adams.

This company control 2,500 acres of coal lands in the South Fork. No work has been done on the property during the past

year. The proposed Canadian Northern Railway line passes this property.

The Head Syndicate, Limited.

Authorized Capital: \$275,000.00.
 President: James Cameron, Head.
 Directors: Harry Scott Barton and Charles M. Brereton.
 Secretary: Frank Tingle.
 Head Office: 110 Cameron St., London, E. C.
 Mine Office: 424 Victoria St., Nelson, B. C.
 General Manager: Leslie Hill.
 Mine Manager: John Robertson.
 Mining Engineer: Leslie Hill.

This company controls 7,500 acres of coal lands on Lynx Creek. The No. 2 tunnel has been driven across the measures for a distance of 500 feet and six workable seams of coal have been proved.

Coal Securities, Limited

Authorized Capital: \$1,000,000.00.
 President: Andrew Laidlaw.
 Directors: Andrew Laidlaw, J. D. Farrell, M. H. Alworth, G. A. B. Jackson and J. H. Farmer.
 Secretary: J. H. Farmer.
 Head Office: Frank, Alberta.

This company controls 12,000 acres on the South Fork and during the past summer have been proving the properties. Two small tunnels have been driven for a few feet and a quantity of stripping and trenching done, which have proved six workable seams of bituminous coal.

The Fernie Syndicate also controls a considerable area of coal lands on the South Fork, but no work has been done on their properties during the past year.

LETHBRIDGE DISTRICT.

MR. SAMUEL A. JONES, DISTRICT INSPECTOR OF MINES,
 LETHBRIDGE.

Alberta Railway and Irrigation Company, Limited.

Authorized Capital: \$6,500,000.000.
 President: E. T. Galt.
 Vice-President: Col. K. B. B. Wodehouse.
 Directors: Sir Edward Clouston, Bart., A. M. Nanton, W. Burdett-Coutts, Edwin Waterhouse, J. H. Dodgson, John Galt and W. M. Ramsay.
 Secretary: David Amey.
 Managing Director: A. M. Nanton.
 Comptroller: E. H. Wilson.
 General Manager: P. L. Naismith.
 Head Office: London, England.
 Mine Office: Lethbridge, Alta.
 Mine Manager: Robert Livingstone.
 Pit Bosses: J. C. Livingstone, Alfred Davis, and S. G. Parks.

Fire Bosses: Robert Scott, W. D. McMillan, Hugh Evans, S. McLeary, James Hill and James Gladwin.
 Engineer: V. Kellett.
 Master Mechanics: No. 3 shaft, John Scott; No. 6 shaft, H. A. McMillan.

At the No. 3 shaft, no improvements of note have been made during the past year. At No. 6 shaft, there has been installed one Babcock and Wilcox boiler of 150 h.p., haulage machinery, a circular saw electrically driven, a brick house which is used as a lamp-house and check-room. This plant now consists of 3 units of Babcock and Wilcox boilers each unit of a capacity of 500 h.p. with induced draft, and steel plate storage bins which receive the slack coal from the tipple by means of a conveyor. The power-house, which is constructed of brick with concrete foundation, accommodates a 200 k.w. generator, a duplex Rand air compressor with a capacity of 3,000 feet of free air per minute, and 2 feed pumps for boilers. A hoisting engine 30" x 48" equipped with automatic stop, and a travelling crane for the erection of machinery, are also installed in the power-house.

The shaft is equipped with 2 oak slides in each compartment and tandem cages, also a Ramsay pusher for loading. The tipple, which is of modern design, is built of steel.

The haulage machinery is all complete for an endless haulage system underground, and will have 8,000 feet of rope in operation. The mine is equipped with 24 Ingersoll coal-cutting machines.

No. 6 shaft is now equipped for an output of 1,800 tons per day of 8 hours. The pit head frame at the air shaft is all made of steel and fitted with an air-lock and can be used for the hoisting and lowering of men and material without any derangement to the ventilation taking place.

Royal Collieries, Limited

Authorized Capital: \$3,000,000.00.
 President: A. C. Flumerfelt, Victoria, B. C.
 Directors: A. C. Flumerfelt, A. Laidlaw, H. N. Galer, H. Davidson and W. C. Nichols.
 Vice-President: A. Laidlaw, Spokane, Wash, U. S. A.
 General Manager: H. H. Glvin.
 Mine Manager: Robert Horne.
 Secretary: S. H. Fisher.
 Head Office and Mine Office: Royal View, Alta.

The improvements made at this mine during the past year consist of two Leonard boilers, 125 k.w. generator and electric turbine pump for supplying the water system of the town.

The development of the underground workings have been retarded somewhat owing to the strike of the miners. This mine is equipped with Ingersoll coal-cutting machines. Preparations are being made to install electric locomotives for underground haulage purposes. The mine is ventilated by means of an electrically driven fan.

Diamond Coal Company, Diamond City

Authorized Capital: \$1,500,000.00.
 President: Hon. G. H. V. Bulyea.

Directors: Hon. G. H. V. Bulyea, Dr. C. W. Clarke, G. F. Stephens, T. Robertson, L. V. Keer, Thomas Underwood, and H. A. McLean.

Managing Director: Thomas Underwood.

Mine Manager: W. D. L. Hardie.

Head Office: Underwood Block, Calgary, Alta.

Mine Office: Diamond City, Alta.

Pit Boss: Joseph Shorthouse.

Engineer: R. Watson.

One unit of Babcock and Wilcox boilers of 500 h.p. capacity with chain grates, mechanical stokers and induced draft has been installed and provision is being made for the installation of 2 more units of the same type of boilers.

Several improvements have been made on the tippie during the past year, and the coal can now be screened more thoroughly and economically. A conveyor 30 feet long has been installed for conveying the coal from the screens to the boilers; an Ottumwa Standard box-car loader has also been installed.

A new water line has been laid and a concrete pump-house built to accommodate an electrically driven turbine pump which is used to supply the town and plant with water.

The work underground has been delayed during the past year, but the development work is now being pushed ahead, so that an increased output may be expected. This mine is now equipped with Ingersoll coal-cutting machines, also a Sirrocco fan of a capacity of 100,000 cubic feet of air per minute, with 6-inch water gauge, driven by a 75 h.p. motor.

As this mine is opened up on the river bottom, the coal has to be hoisted to the tippie by means of an incline on the surface. This incline is prepared for a double track, which will be laid as soon as the mine is sufficiently developed.

Chinook Coal Company, Limited, Diamond City

Authorized Capital: \$3,000,000.00.

President: W. A. Wood.

Vice-President: C. R. Somerville.

Directors: W. A. Wood, C. R. Somerville, Robert Cassels, Miller Lash, Christopher Cook, H. A. McCallum, Hiram Birge, L. G. DeVebre.

General Manager: J. C. Reid.

Mine Manager: Willis P. Thomas.

Pit Boss: John Bamling.

Head Office: Manning Arcade, Toronto, Ont.

Mine Office: Sherlock Block, Lethbridge, Alta.

This company owns 8,500 acres of coal lands which have been prospected during the last two years by means of a diamond drill, 14 holes having been put down to the coal with satisfactory results.

The plant, which is fully equipped for an output of 1,200 tons per 8 hours, consists of a brick power-house with concrete foundation, which accommodates 5 Leonard return tubular boilers with chain-grates, rollers, mechanical stokers and 2 induced draft fans. A 60 feet self-supporting steel stack has also been erected. The following plant has also been installed: A two stage straight line air compressor of the Sullivan type, hoisting engine, size 24" x 36" with 8 feet drums of the Danveil type, 125 k.w. generator for supplying light and power to the electric turbine pump which is installed at the river bottom, and an 8 1-2 feet high speed Sulli-

van fan with a capacity of 200,000 cubic feet of air per minute, against a 4" water gauge. This fan is placed in a house which is practically fireproof. A blacksmith's, carpenter's and machine shop 40 feet by 100 feet has been built of brick.

The steel tippie which is now in operation is equipped with self-dumping cages and shaker screens giving 4 sizes of coal. An Ottumwa car loader has also been installed. The mine is equipped with Ingersoll and Sullivan coal-cutting machines.

Lethbridge Collieries, Limited.

Authorized Capital: \$3,000,000.00.

President: E. B. Greenshields.

Directors: E. B. Greenshields, H. A. Lovett, K.C., J. W. McConnell, Nathaniel Curry, Hon. Robt. McKay, J. S. Hough, D. B. Adams, Isaac Cockburn and C. H. Campbell.

Head Office: Montreal, Que.

Mine Office: Kipp, Alta.

General Manager: Charles Fergie.

Secretary-Treasurer: George V. Cousins.

Central Office: Lethbridge, Alta.

Superintendent: William Maxwell.

Comptroller: F. Cameron.

Construction Engineer: N. C. Pitcher.

Mine Manager: S. Harrison.

Pit Boss: John D. Keith.

Fire Boss: W. Macdonald.

This mine has been equipped for an output of 1,500 tons of lump coal in 8 hours.

The following plant has been installed: One 200 k.w. generator, one air compressor with a capacity of 3,000 cubic feet of free air per minute, 2 feed pumps for boilers, a Walker hoisting engine, a travelling crane for the erection of machinery, 2 units of Babcock and Wilcox boilers of 500 h.p. each with induced draft, a Walker fan, a steel tippie of modern design with shaker screens and picking belt giving four sizes of coal, also rotary dump and a car pusher.

The shaft is equipped with tandem cages and guides made of Douglas fir. There are 4 guides in each compartment, with cast iron guide brackets placed in position on alternate buntons so as to keep the guides in place. Cages are fitted with shoes the full height of the cages to prevent the cutting of the guides.

An Ottumwa box car loader and an extra chute arrangement attached to the tippie for the handling of the rock that comes from the mine have been installed.

A modern wash-house equipped with spray baths, a lamp-room built of brick, a water system for use of the mine and town, also railway and siding all complete and in operation.

The underground workings are laid out on the room and pillar system with entries 8 feet wide. The shaft bottom is supported by means of steel girders carried on walls built of concrete.

A Weir pump is stationed at the bottom of the shaft to deliver water to the surface from the shaft bottom, and five small Cameron pumps which are placed in different parts of the mine deliver the water to the shaft bottom.

Ingersoll coal-cutting machines are installed. Only safety lamps of the Wolfe pattern are used throughout the mine.

All shots are fired with electric battery by certificated persons.
Fifty cottages for the use of the workmen have been built.

New Barnes Coal Mine Company, Royal View

Mine Manager: Jas. A. Richards.

Several prospect openings have been made on this property during the past year.

The improvements made during the year are as follows:—
A new drift has been opened about a quarter of a mile north of the old opening. The coal is similar in quality to that of the Royal Collieries, Limited, with the same roof and pavement. At the new opening a wooden tippie has been erected, with two chutes attached, giving two sizes of coal.

As this mine has not got railway facilities, it is only being developed on a small scale.

City of Lethbridge Mine, Lethbridge

Pit Boss: Hugh Scott.

This mine is operated by the City of Lethbridge for the purpose of supplying coal for the city power plant, and offices only. Very little development has been done at the mine, most of the coal being hauled along a tramway to the plant, a distance of 1,100 feet.

Pioneer Mine, Operated by James Ashcroft, Lethbridge

This mine is situated across the Belly River from the City of Lethbridge. Very little development work has been done, the coal mined being used to supply local demand only.

Canada West Coal Company, Limited, Taber

Authorized Capital: \$2,400,000.00.
President: O. A. Robertson.
Vice-President: S. H. Bowman.
Directors: O. A. Robertson, F. E. Kenaston, S. H. Bowman, F. B. Lynch and J. S. Hough.
Secretary: V. S. Kidd.
Treasurer: F. E. Kenaston.
General Manager: V. S. Kidd.
Head Office: Taber, Alta.
Mine Manager: J. W. Powell.
Pit Boss: M. Johnson.
Fire Boss: J. Harvie.

This mine is equipped to handle an output of 1,000 tons per day. The underground haulage is done by means of three electric locomotives which bring the cars to the bottom of the slope, after which they are hauled up the slope by means of an endless chain. A great improvement in ventilation has been made at this mine during the past year, a number of new airways having been driven, and the old airways enlarged and repaired.

Eureka Coal Company, Limited, Taber.

Authorized Capital: \$400,000.00.
President and General Manager: Frank Barton.
Vice-President: Byand Smith.
Directors: J. F. Kramer, D. L. Miller and E. S. F. Huntrods,
A. L. Mitchel and W. Duncombe.
Secretary-Treasurer: J. F. Kramer.
Auditor: B. A. Caren.
Mine Manager: E. S. F. Huntrods.

The improvements made at this mine during the year were the installation of a ventilating fan, and the enlarging of the tippie, so that three grades of coal can now be put on the market.

A considerable amount of development work has been done during the past year, a shaft being sunk and the old workings connected up to this shaft by means of new roadways. The ventilation has also been greatly improved. Ingersoll coal-cutting machines have been installed.

White Ash Collieries, Taber.

This mine was formerly operated by the Belly River Collieries.

Authorized Capital: \$10,000.00.
President and General Manager: W. E. Bullock.
Vice-President: Roy Bullock.
Secretary-Treasurer: Clara Bullock.
Mine Office: Taber, Alta.
Mine Manager: John Marsh.

This plant consists of a 25 h.p. gasoline hoisting engine, one return tubular boiler of the Leonard type and a 5 drill air compressor. A new water system with a steam pump at the river has been installed.

Superior Coal Company No. 1 and No. 2.

Authorized Capital: \$1,500,000.00.
President: B. K. Bullock.
Directors: B. K. Bullock, W. Henderson, Annie L. Bullock and C. C. Cook.
Head Office and Mine Office: Elcan, Alta.
Secretary-Treasurer: C. C. Cook.
Pit Boss: John Davis.

During the past year there have been installed at this mine, one unit of Babcock and Wilcox boilers of 500 h.p. capacity and a 7 drill straight line air compressor.

Golden West Coal Mining Company, Taber.

Authorized Capital: \$50,000.00.
Directors: E. S. Bowden, Gordon Ridley and A. L. Bowden.
General Manager: E. S. Bowden.
Mine Manager and Pit Boss: John Bastian.

The underground workings are opened up on the room and pillar system and developed on a small scale, having about 14 men employed and producing about 40 tons per day. All coal is hauled in wagons to the Town of Taber, a distance of about four miles.

Rock Springs Coal and Brick Company Limited, Elcan.

Authorized Capital: \$500,000.00.
President: B. K. Bullock.
Directors: B. K. Bullock, W. Henderson, Annie L. Bullock and C. C. Cook.
General Manager: William Henderson.
Mine Manager: Robert Lee.
Secretary-Treasurer: C. C. Cook.

The improvements at this mine consist of a new air shaft, also ventilating fan driven by an Atlas engine.

The mine is equipped with Ingersoll coal-cutting machines and has railway facilities.

The plant is capable of handling an output of 300 tons per day and consists of: 4 return tubular boilers, one straight line Rand air compressor, a 35-h.p. hoisting engine. A wooden frame tipple is erected with rotary dump and screening arrangements for three sizes of coal. A Fairbanks duplex pump for private water system for supplying the mine and workmen's houses with water. A wash-house with hot and cold water and lockers has been erected.

The Alberta Consolidated Coal Company, Limited, Elcan.

Authorized Capital: \$1,000,000.00.
President: D. W. Wilson.
Vice-President: James Turner.
Directors: D. W. Wilson, W. H. Turner, James Turner, W. E. Bullock and H. I. Reynolds.
Secretary-Treasurer: W. H. Turner.
Mine Manager: S. D. Wark.
Mine Accountant: I. Parks.
Mine Office: Elcan, Alta.

During the year this company has built a wooden trestle across the coulee and have increased the capacity of their plant to about 300 tons per day.

The plant consists of 3 return tubular boilers of 175 h.p. capacity, an air compressor supplying air for 9 Ingersoll coal-cutting machines, a rope haul incline for raising the output onto a large wooden frame tipple which has a cross-over dump, with screening arrangements for three sizes of coal. This mine has railway facilities.

There are several other mines in the Taber District but they are mostly only producing coal on a small scale, and only work for a few months in the year.

In the Grassy Lake District, there are several mines working, but as they have not got railway facilities, they are producing on a very small scale.

In the Bow Island District there are also several small mines which only work for a few months in the year and supply an entirely local demand.

In the Little Bow District, there are several small mines opened up by drifts of which the most important are: Durham Collieries, Limited, near Carmangay. This company owns a large coal area but as they have no railway facilities, no great development has been done during the past year.

Stavelly Coal Company, Limited, Carmangay.

Directors: H. P. Hennger, G. R. Serverson, Claf Jones, Chas. A. Rose, Alex. Henderson, Alex. Johnson, William Porteur, Andrew Heggen and J. W. Wilford.
 Manager and Pit Boss: Alex Fraser.

This company has opened up a mine on the banks of the Bow River, but are only operating on a very small scale.

In the Milk River District there are six mines producing coal, but all on a very small scale.

CARDSTON DISTRICT

The Big Chief Coal Mining Company, Limited, Kimball.

Directors: H. R. Sloan, C. A. Emery, E. Wood, Tom Richardson and A. Nibley.
 Manager: H. R. Sloan.
 Pit Boss: Thomas Irvine.

This company has done considerable prospect work during the year, by driving a slope on the dip of the seam to a distance of 380 feet and sinking a vertical shaft for ventilation. A duplex steam pump and tippie have been installed. The coal is of a semi-bituminous nature with an irregular dip, and varies considerably in thickness.

The Cardston Coal and Coke Company, Limited, Cardston.

Directors: J. I. Morgan, Benjamin Street, Jerry Learith and R. E. McArthur.
 Manager: R. E. McArthur.

This mine is only in the prospect stage, very little progress having been made towards developing it.

CALGARY DISTRICT

MR. ANDREW A. SCOTT, DISTRICT INSPECTOR OF MINES, CALGARY

Bankhead Mines, Limited, Bankhead.

Authorized Capital: \$1,000,000.00.
 President: R. B. Angus.
 Directors: R. B. Angus, E. B. Osler, W. H. Aldridge and W. D. Mathews.
 Secretary: A. R. G. Heward.
 Treasurer: B. T. Coon.
 Head Office: Montreal, Que.
 Mine Office: Bankhead, Alta.
 General Manager: Lewis Stockett.
 Assistant General Manager: F. W. Guernsey.
 Mine Manager: J. Watters.
 Mining Engineer: R. Dougall.
 Master Mechanic: D. H. Smith.
 Pit Boss: T. Bastian.

Fire Bosses: T. Whitelaw, T. Thompson, T. W. Thompson, T. J. Griffiths, J. Littler and R. Littler.

At this mine a number of improvements have been made during the past year. An incline has been built on the surface from B. level to the foot of the tippie a distance of 2,000 feet. This is to replace the inside slope used for lowering cars from B. to A. levels. The new slope is double tracked and cars will be landed in six car trips at the tippie. It will be self-acting, having a No. 7 Steine inclined plane wheel installed at the top.

A considerable amount of new tunnel work has been done during 1911. On the B. level a new tunnel is being driven to cross-cut all the seams and will be driven to the outside. On the A. level a new tunnel is being driven from No. 6 to No. 2 seams.

The quantity of powder used in the mine has been reduced during 1911 tending towards greater safety and the production of a greater percentage of lump coal. All detonators are now taken into the mine by the fire bosses or shot lighters only.

In the tippie, two new picking tables have been installed, also a number of minor improvements made in the existing picking tables and screens.

A conveyor, 150 feet in length has been built from the slack pile to the breaker, and during the past few months this conveyor has taken enough slack from the pile into the briquette plant to make 6,000 tons of briquettes.

The system of bringing in the pitch for the briquette plant in barrels has been replaced by special tank cars which are run directly into a new steam heated building where the pitch is heated and run as required into the tank in the briquette plant.

The Canmore Coal Company, Limited, Canmore.

Authorized Capital: \$50,000.00.

President: James B. Neale.

Directors: James B. Neale, S. Brinckerhoff Thorne, Orin H. Ingram, Frederick E. Weyerhaeuser, Jos. D. Thorp.

Secretary: Edmund M. Parker.

Treasurer: S. Brinckerhoff.

Head Office: Canmore, Alta.

Mine Office: Canmore, Alta.

General Manager: James J. Morris.

Mine Manager: W. G. Flint.

Mining Engineer: W. G. Flint.

Master Mechanic: H. W. Evans.

Pit Bosses: No. 1 mine—W. Musgrove; No. 2 mine—Wm. Shaw.

Fire Bosses: No. 1 mine—J. S. Wright, Jas. Clyne, C. W. Fowers, A. J. McKinnon, D. McDonald, T. Harrison. No. 2 mine—T. J. Shaw, S. Vola and A. Besso.

This mine has changed hands during the past year, the previous operators being The H. W. McNeill Company, Limited. During the past year, very little development work has been done. A slope is being sunk from the surface on the Sedlock seam to connect with the face of No. 6 tunnel from the Carey seam in No. 1 mine.

An addition of a 7 ton, 5½"x11"x10" air locomotive has been made to the underground equipment at the No. 1 mine.

At the No. 2 mine, a tunnel is being driven under the Sedlock seam and is now in about 15,000 feet. This is to be used for a main haulage road for the Sedlock seam.

On the surface a gravity water system has been installed for supplying fresh water to the town and mine.

The Calgary Coal Syndicate, Limited, Mitford—Cochrane.

Authorized Capital: \$100,000.00.
Directors: Harry Noel Hoare, Cecil Bowes Wood, Major Robert G. T. Baker Carr.
Secretary-Treasurer: F. A. Weston.
Head Office: Temple Chambers, London, England.
Mine Office: Valerie Mine, Mitford, Alta.
General Manager: W. R. Bond.
Mine Manager: D. Gray.
Pit Boss: J. Russell.

This company controls about 4,500 acres of coal lands in the Mitford District. Most of their work so far has been in the nature of prospecting. A slope 300 feet in length was sunk on the seam when it struck old workings from a level which had been driven a number of years ago. The quality and thickness of the seam has justified the company in proceeding with the erection of a tippie which is to be equipped with picking tables, screens and cross-over dump. The contract for this has been let along with a contract for plant to handle an output of 500 tons per day.

The plant now on the premises is only temporary and consists of two hoisting engines, 8"x10" and 5"x7" respectively, and two 10 h.p. vertical boilers and one 60 h.p. boiler, locomotive type and two duplex pumps.

An office, bunk-house, two cottages, wash-house and blacksmith shop have been built.

Work has just commenced on the unwatering of the old slope which was sunk to a depth of 600 feet some twenty years ago.

Safety lamps of the Wolf type have been installed, although gas has only been found in very small quantities.

Bonnie Brae Coal and Quarries, Limited, Cochrane.

Authorized Capital: \$250,000.00.
President: Marenus Janse.
Directors: Marenus Janse, John Steinbrecker, Fred N. S. Eaton and A. Phillips.
Secretary-Treasurer: Fred N. S. Eaton.
Head Office: 3 Mackie Block, Calgary, Alta.
Mine Office: Bonnie Brae Mine, Cochrane, Alta.
General Manager: Arthur Phillips.
Mine Manager:
Mining Engineer: A. D. Locke.

This company is also operating in the Mitford District, and controls about 1,000 acres of coal lands. Most of the work done so far is only of a preliminary character. A 7"x10" hoisting engine and a 15 h.p. vertical boiler have been installed.

A level 400 feet in length has been driven on the strike of the seam.

Contracts have been let for the erection of a plant and tippie to handle 500 tons per day output.

This mine is situated about two miles from Mitford on the main line of the Canadian Pacific Railway.

Bow Centre Collieries, Limited.

Authorized Capital: \$3,000,000.00.
President: Jas. Munroe.
Directors: Jas. Munroe, Robt. Booth, Wm. Boshart, John Crawford,
Chas. Westgate and C. R. Henderson.
Secretary-Treasurer: Chas. Westgate.
Head Office: Ottawa, Ontario.
Mine Office: Eyremore, Alta.
General Manager: C. R. Henderson.
Mining Engineer: Jas. O. Hannah.
Pit Boss: T. E. Moore.

This company controls 10,000 acres of coal lands situated 20 miles south of Brooks. Railway connections are expected to be made during the present year. During the past year, the seam which is about 5 ft. 6 ins. thick and of a good quality of lignite coal, has been opened up by levels from the river bank and enough development work has been done to produce an output of 200 tons per day.

During the past summer, prospecting work has been carried on with a 2" Davis-Calyx core drill and a number of holes have proved the seam at an average depth of 125 feet from the surface with satisfactory results.

Another small mine is operating south of Brooks on a small area of leased coal rights. Only two men are working, the output being sold to farmers in the vicinity. No plant has been installed. The seam outcrops on the river bank. The operators are Messrs. Archer and Larosse.

North of Brooks four other mines are working. These work mostly during the winter and supply only local trade. The first of these is the mine operated by F. B. Park on the Red Deer river which is producing about 5 tons per day. J. A. Haeckl is operating a mine near Rose Lynn and produces about 10 tons per day. The mine operated by W. Oscar produces 70 tons per day during the winter months. It is situated on section 19-29-12-4, and supplies settlers in the eastern part of the Province with coal. A 25 h.p. traction engine has been installed at this mine for hoisting, also a small duplex pump. Small screens, bins, bunk-house and stables have also been built. Area of coal lands consist of 40 acres, leased.

In the same section is situated the mine operated by Col. James A. Walker. This mine is producing an output of 30 tons per day. A 25 h.p. engine and boiler built by the American Hoist and Derrick Company have been installed. A Marsh steam pump and a Fairbanks-Morse duplex pump have also been installed. Area of coal lands consist of about 1,200 acres. The last two mines are situated on the proposed Canadian Northern Railway.

In the Carbon District, there are six mines working; the output from these mines being comparatively small, as the sale of the coal is only local. The coal is of a good quality of lignite and with the advent of railways into this district a rapid development will take place. The most important mine in this district is the Black Diamond mine operated by W. Poxon, who has installed a 25 h.p. Leonard boiler and hoisting engine during the past year, also new screens and bunkers to hold 50 tons of coal.

The other mines are operated by the Knee Hill Coal Company, Hedstrom Brothers, Dodds, Currie and Hoding; Newcastle Coal Company, and D. McKenzie.

In the Three Hills District there are five small mines working, the sale being purely local. The most important of these, is the mine operated by the Three Hills Coal and Development Company, Limited, who own 1,000 acres of coal lands. This mine is situated one and a-half miles from the grade of the Grand Trunk Pacific Railway. A spur line is to be built to the mine when modern mining machinery will be installed. The other mines are operated by R. Nichol; Dick and Halbert; G. Watson, and C. Catchpole. None of these mines employ more than about six men at one time.

At Ghost Pine Creek there is one small mine operated by R. Cook producing about five tons per day during the winter months.

In the Trochu District there are four mines operated by The Trochu Coal Company; David Halbert; G. C. Yard and Ostheller and Kruger. These have all been opened during the past year and supply only the local trade, the output at present being very small.

West of Carstairs, two small mines which had been operated by different parties have been bought by Mr. G. H. Knowlton of Vancouver, who is now operating these places. At present the output is small, no plant having been erected. The seam which is pitching about 45 degrees is of a semi-bituminous nature.

West of High River, two mines are working a seam of semi-bituminous coal. One is operated by B. E. Parton and produces two or three tons of coal per day, the other which is situated near Black Diamond is operated by A. D. McPherson, and produces from ten to twelve tons per day.

A small mine is also being operated by W. M. Davis near Dewinton.

EDMONTON DISTRICT

MR. ELIJAH HEATHCOTE, DISTRICT INSPECTOR OF MINES,
WETASKIWIN.

The Great West Coal Company, Limited.

Authorized Capital: \$150,000.00
President: James C. Dunn.
Mine Manager: Alexander C. Dunn.
Secretary: William T. Cupples.

The property owned by this company consists of 1,118 acres on which there are three seams of coal. The top seam varies in thickness from 3 feet to 5 feet, the second seam from 5 feet to 8 feet and the third seam from 4½ feet to 5 feet. Two shafts have been sunk; the hoisting shaft which is 180 feet deep is 14 feet by 9½ feet, and the air shaft which is 85 feet deep is 9 feet by 6 feet in the clear. The plant is connected to the main line of the Grand Trunk Pacific Railway at Clover Bar by a spur track 2½ miles long. The coal is hoisted up the shaft by means of a pair of hoisting engines 16" by 30". A Schiele fan driven by an engine 16"x30" is used to ventilate the mine. An air compressor, two Robb-Mumford boilers, 70 h.p.; one 16 h.p. hoisting engine; one duplex 5"x8" Fairbanks-Morse pump, and one 37 k.w. dynamo which is driven off the fan engine, have been installed.

The Clover Bar Coal Company, Limited, Edmonton

Authorized Capital: \$500,000.00.
President: H. E. R. Rogers.
Vice-President: J. J. Milledge.
Treasurer: H. H. Robertson.
Secretary: J. H. Hunter.
Directors: H. E. R. Rogers, J. J. Milledge, H. H. Robertson and
A. C. Dunn.
Mine Manager: Thomas O'Donnell.

The area owned by this company consists of 813 acres, and contains three seams of coal. Only one seam which is 7 feet thick is being worked. This seam is worked by means of a shaft which is 85 feet deep. The workings of this mine have been developed and the output increased from 150 to 350 tons per day. On the surface a wash-house and blacksmiths' and carpenters' shops have been built and the siding accommodation increased by about 300 feet.

Alberta Coal Mining Company, Limited, Cardiff

Authorized Capital: \$250,000.00.
President: James Bell.
Vice-President: W. L. Carter.
Secretary-Treasurer: Geo. S. Montgomery.
Mine Manager: James Hargreaves.
Pit Boss: Gus Ostheidt.

The area controlled by this company consists of 1,440 acres, and contains one seam of Lignite coal varying from 6 to 9 feet in thickness. The plant is connected to the main line of the Canadian Northern Railway by a branch line near Morinville. The surface arrangements consist of hoisting machinery, car puller, tippie scales, and screens.

Jasper Park Collieries, Limited, Pocahontas.

President: Andrew Laidlaw.
Vice-President: J. L. Cote.
Secretary-Treasurer: H. B. Round.
General Manager: R. H. Morris.
Mine Manager: Cory Weatherby.
Fire Boss: James Bowie.

The mines operated by this company are situated on the main line of the Grand Trunk Pacific Railway about 82 miles west of Edson. One seam which is 10 feet thick and pitching at an angle of 56 degrees in an easterly direction, is being worked. The coal is of a bituminous nature and suitable for either domestic or steam purposes. A main gangway has been driven for a distance of 1900 feet at a height of 275 feet above the railway level. To prove the coal to the dip, a slope is being sunk. It is intended to sink this slope to a depth of 600 feet and from the foot of it, to drive a level to the surface. This level will eventually be the main haulage road. Safety lamps of the Wolfe type are used throughout the mine and all shots are fired by means of electric batteries. Monobel powder is used for blasting.

The surface equipment consists of: a 60 h.p. return tubular boiler and a 30 h.p. second motion hoisting engine fitted with a friction clutch. This engine is used for hauling the cars on an

incline 1,200 feet long which connects the tippie with the mine. The tippie which is a temporary one is built of timber and has two tracks and one five ton Fairbanks beam scale for weighing the mine cars. These cars have a capacity of 2,600 lbs. A six foot Sheldon fan direct connected to a horizontal engine with an 8 h.p. vertical boiler, has also been installed. The above plant is only temporary and will be replaced by a permanent plant which will be built during the present year. The permanent tippie will be capable of handling an output of 2,000 tons per day, and will be fitted with cross-over dumps, picking tables and stationary screens, and driven by 150 k.w. and one 50 k.w. generator. These machines will also furnish power for lighting purposes. There will also be empty and loaded track scales above and below the tippie, and a boiler plant of 150 h.p. capacity. All machinery in connection with the tippie and fan will be electrically operated.

The Yellow Head Pass Coal and Coke Company, Limited.

President: M. J. O'Brien.
 Vice-President: M. Doheny.
 Secretary-Treasurer: T. W. Rons.
 Managing Director: G. H. Richardson.
 Mine Manager: F. B. Smith.

This company controls 5,120 acres of coal lands in the Yellow Head Pass on the Embarras River. Seven seams of coal have been proved, averaging in thickness from 2 feet to 35 feet, and pitching at an angle of 45 degrees. To open up the mine four slopes have been driven a distance of 400 feet, and a level in an easterly direction for a distance of 200 feet. The surface plant consists of: Two 80 h.p. boilers, one 60 h.p. hoist, one 20 h.p. engine for machine shop, four Fairbanks-Morse pumps with capacity of 250 gallons per minute, together with the necessary piping, etc.; 40 Wolfe lamps, lamp-house, store-house, powder-house, office-building, boiler and power-house.

The Pacific Pass Coal Fields, Limited, Heatherwood.

President: E. B. Greenshields.
 Directors: Hon. Robt. McKay, H. A. Lovett, K. C., Hon. P. A. Choquette, A. A. Cook, K. C., Wm. McPherson, R. Brutinel, J. T. Ross, L. Collinet, Vesey Boswell and B. A. Scott.
 Chief Engineer: Charles Fergie.
 Secretary-Treasurer: George V. Cousins.
 Assistant Secretary-Treasurer: Samuel T. Manis.
 Mine Manager: Peter Christianson.

This company are proving and developing four seams of coal, situated on the Little Pembina River. These seams are pitching at an angle of 15 degrees. A slope is being driven in the lower seam and four levels are being driven to open up the seams.

The Cardiff Collieries, Limited, Cardiff.

Authorized Capital: \$700,000.00.
 President: J. N. O'Grady.
 Vice-President: Andrew Keeley.
 Secretary: W. E. Browne.
 General Manager: G. H. Eaton.
 Mine Manager: F. B. Smith.
 Pit Bosses: William Gilliland and Alex. McGregor.

This company has opened up the south east portion of their property by driving a slope on an inclination of 18 degrees to the coal. The main entries are driven wide enough for double track and 40 lbs. steel rails are used. In this portion of the mine, mine cars of three tons capacity are in use, and the seam lying practically horizontal, these cars are hauled by means of horses. The seam is 14 feet thick and is found at a depth of 22 feet from the surface. Nine feet of coal is extracted leaving 5 feet to form a roof. The coal is undercut by Sullivan short-wall and Morgan-Gardiner Breast coal-cutting machines, driven electrically. A tippie built of wood 200 feet in length and 72 feet high has been erected at the top of the slope. This tippie is equipped with an automatic cross-over dump and cable car haul, also shaking screens and box car loader. The tippie is capable of handling an output of 1,000 tons per day.

Mountain Park Coal Company, Limited, Edmonton

President: C. J. Leyland.

Directors: C. J. Leyland, J. C. C. Bremner, R. W. Jones, Geo. R. F. Kirkpatrick.

General Manager: N. Marchamp Thornton.

Mine Manager: James Derbyshire.

This company controls 5,500 acres of coal lands situated on the Little Pembina River. The coal is of a bituminous nature and is suitable for either steam or domestic purposes. Four seams of coal have been proved. These seams are 18 feet, 6½ feet, 4½ feet and 3 feet respectively in thickness, and are pitching at an angle of 30 degrees. It is the intention of this company to push ahead with the opening up of the seams so that they will be in a position to ship coal when the branch line of the Grand Trunk Pacific Railway from Bickerdyke, is completed.

North Alberta Coal Syndicate, Edmonton.

The property controlled by this company is situated in the Jasper Park Forest Reserve, and near Brule Lake, which is near mile 78 on the main line of the Grand Trunk Pacific Railway. The property which is about 7 miles long is situated in townships 49 and 50, ranges 26 and 27, west of the fifth meridian. The property has been prospected by cutting trenches across the coal measures, and driving tunnels a short distance into the coal seams to prove the quality. Three seams of bituminous coal suitable for either steam or domestic purposes have been proved, the thickness of these seams being respectively, 4 feet 3 inches, 10 feet, and 14 feet. The measures are dipping at an angle of 65 degrees towards the south.

Three mines have been opened near Wabamun, one mine south of Wabamun Lake and the other two north of the lake. The coal on these properties is 9 feet thick and is suitable for domestic use. The seam is lying at a depth of 60 feet from the surface, but outcrops on several small creeks.

In the neighborhood of Edmonton there are a number of small mines producing outputs varying from 10 to 150 tons per day. In this district, the coal is lying practically horizontal and as explosive gas has not been found, open lights are used and the

miners fire their own shots. Black powder is used for blasting purposes.

A considerable amount of prospecting work has been done in the Brazeau District, but no development work will be done here until the railway is built into this field.

Along the Lacombe and Wetaskiwin branches of the Canadian Pacific Railway a number of small mines are in operation, but as they only supply the local demand, no extensive development has been done.

Work of Inspection

Owing to the large number of new mines that are opening up in the northern part of the Province, it was considered necessary to appoint another District Inspector of Mines. Consequently Mr. Elijah Heathcote, who was District Inspector of Mines for the Crow's Nest Pass District, was appointed District Inspector for what is known as the Edmonton District. This District includes the territory north of the Lacombe branch of the Canadian Pacific Railway. Upon Mr. Heathcote's removal to the Edmonton District, Mr. Francis Aspinall was appointed District Inspector of Mines for the Crow's Nest Pass District with headquarters at Lethbridge.

As may be noted from the foregoing tables, the outputs from the mines operating in the bituminous and anthracite fields have been considerably decreased. This is due to the fact that work was suspended at practically all the mines in these fields for a period of about eight months, owing to a strike of the workmen. In the early part of the year, work was also considerably interfered with owing to the inclemency of the weather, while in the latter part of the year, work was retarded owing to the difficulty in obtaining a sufficient supply of railway cars.

You will, however, note that there has been an increase in the output of lignite coal produced during the year, in spite of the fact that the strike which affected the bituminous mines also affected the larger lignite mines in the southern part of the Province.

The "Eight Hour Law" which came into force on April 1st, 1909, appears now to be working satisfactorily.

The inspectors have made their rounds of inspection as often as possible and have investigated the causes of all serious and fatal accidents and attended all inquests which have been held, and have also as far as practicable had the causes of these accidents removed.

In order to have a method of underground haulage by locomotives without going to the expense of installing a compressed air plant, the Canadian Coal Consolidated, Limited, at Frank, installed two gasoline locomotives, but so far have met with very indifferent success.

Safety lamps are now installed in all the mines in the Crow's Nest Pass, also in the Canmore and Bankhead mines, as well as in the mines operated by the Lethbridge Collieries, Limited, near Lethbridge. Only explosives which are on the "British Permitted List" are now being used in the mines in the bituminous and anthracite fields, and all shots are fired by means of electric batteries in these mines whether gas has been found or not. Shot-firing has

also been considerably reduced, with the result that a better marketable coal is now being put on the market. The change in the method of shot-firing and the reduction in the number of shots fired, has, I believe, played an important part in reducing the number of accidents. Very strict measures have been taken by the inspectors to stop all shooting off the solid.

Telephones have been installed in the more important mines in the Crow's Nest Pass District, and are proving of great service, both in assisting the management of the mine and in getting assistance should an accident occur.

With reference to my report for the year 1910, re the method of mining adopted in the shaft mine operated by the Canadian Coal Consolidated, Limited, at Frank, you would note that the system of working this mine by breasts, after being condemned by me, was discontinued by the company and the angle system adopted. The angle system, however, was only worked for about six months when the company again commenced working the mine on the horizontal breast system, the difference between this method and the first method being that, in the first case a pillar 10 feet thick was left above the main gangway while in the last method a pillar 40 feet thick is being left. I do not approve of this method of mining as it is very probable that after a portion of the mine has been opened out in this manner, a heavy squeeze will again take place.

MINE RESCUE STATION

During the year it was decided to proceed with the installation and equipment of a Mine Rescue Station in the Crow's Nest Pass, and after going into the matter very thoroughly and making a comparison of the different apparatus on the market, we decided to adopt the "Fleuss" apparatus. It is proposed to equip this station with 11 two-hour apparatus' and 6 half-hour apparatus along with the necessary accessories and resuscitating devices. Two Draeger "Pulmotors" are also being installed.

This material has been ordered, and I hope to have the station in operation early in March. The station will be situated at Blairmore, as this is the most central position for the district in which the apparatus is to be used; viz., from Pincher Creek to Coleman. Half the cost of operation and equipment will be borne by the mine operators and half by the Provincial Government. The station, however, is to be entirely under the control of the Government, as it is believed that by this arrangement, a higher standard of efficiency will be maintained. Two temporary buildings have been obtained until arrangements can be made to have a permanent station erected. A superintendent will be in constant attendance and arrangements are being made to have all the mines in the district connected to the station by telephone.

LAST OF PROSECUTIONS UNDER THE COAL MINES ACT DURING THE YEAR 1911

District in Which Prosecution Was Instituted.	Description of Defendant.	Offence Charged.	Result of Proceedings.	Penalty.	Costs.
Crow's Nest Pass	Fire Boss	General rule 7 (a) section 51, having matches in his possession in mine.	Case dismissed	.....	.....
Crow's Nest Pass	Fire Boss	General rule 8 (g), section 51, failed to examine place after firing shot.	Conviction	\$ 5.00	\$5.00
Crow's Nest Pass	Fire Boss	General rule 8 (g), section 51, failed to examine place after firing shot.	Conviction	\$20.00	\$2.75
Crow's Nest Pass	Miner	General rule 8 (g), section 51, returning to place, after shot was fired, before it was examined by person firing shot.	Conviction	\$10.00	\$2.75
Crow's Nest Pass	Fire Boss	Section 28, acting as fire boss without being holder of certificate.	Conviction	\$20.00	\$2.25
Crow's Nest Pass	Manager	General rule 36, section 51, allowing man to act as fire boss who was not holder of a certificate.	Conviction	\$40.00	\$2.25
Crow's Nest Pass	Miner	General rule 8, section 51, taking powder into mine in excess of quantity allowed by Coal Mines Act, and taking it in otherwise than in a secure case or canister.	Conviction	\$ 5.00	\$8.00
Crow's Nest Pass	Manager	General rule 8, section 51, allowing powder to be taken in to mine; in excess of quantity allowed by Coal Mines Act; and otherwise than in a secure case or canister.	Conviction	\$10.00	\$8.25

(The above prosecutions were all instituted by the Department.)

ACCIDENTS

From the list of accidents for the past year it will be seen that seven persons lost their lives while employed underground. There were no fatal accidents above-ground.

Of these accidents, one occurred at a shaft which was being sunk, two at the working face, two in connection with haulage, and two while men were riding to their work on empty cars.

The fatal accident in connection with shaft sinking occurred in the mine operated by the Great West Coal Company, Limited, near Edmonton. The shaft had been sunk to a depth of 60 feet when sinking operations were stopped and a scaffold erected about 10 feet from the top of the shaft. This scaffold was built with insufficient supports and while 3 men were working on it, it gave way, with the result that one of the men fell to the bottom of the shaft, a distance of 50 feet, and was killed.

Of the two fatal accidents which occurred at the working face, one occurred at the mine operated by the Canmore Coal Company, Limited, near Canmore, and the other at the mine operated by the Davenport Coal Company near Burmis. In connection with the latter accident, the man who was killed, went back to his working place immediately after a shot had been fired and before the place was examined by the person who fired the shot. A prop which was supporting the roof had been broken, presumably when the shot was fired, with the result that after the man had recommenced work, the roof fell, killing him instantaneously. The accident which occurred at Canmore was, in my opinion, entirely unforeseen and no blame could be attached to any person. Of the two accidents which occurred in connection with haulage, one occurred to a fire boss in the mine operated by the Breckenridge & Lund Coal Company, Limited, near Lundbreck, and the other to a driver in the mine operated by the Davenport Coal Company, Limited, near Burmis. That which occurred at Lundbreck was caused by the failure of a haulage attendant to put a drag behind a trip of cars before it was hoisted up the slope, with the result that a coupling pin broke, allowing the cars to run back to the bottom of the slope, where they struck the fire boss who was standing there. The accident at Burmis occurred to a driver while bringing out a trip of loaded cars from the mine. While walking in front of the cars he is believed to have stumbled, with the result that one of the cars went over him. The accident which occurred to the two men who were killed while riding to their work on empty cars, occurred in the mine operated by the West Canadian Collieries, Limited, at Bellevue. It appears that the compressed air locomotive was pushing a trip of 10 cars along the main gangway, and that four men were riding on the front car. When near chute No. 64 this car became derailed and knocked a timber out, with the result that a quantity of small coal fell on top of the men. Two of the men were rescued, but before the other two could be recovered they were suffocated. Some time before this accident occurred, acting on instructions from the Department, a notice was posted at the entrance to the mine, to the effect that workmen were not to ride on cars beyond chute No. 27. In spite of this notice, however, the pit boss allowed these men to ride in past this point, with the result mentioned above. There have also been three serious non-fatal acci-

dents above ground, and twenty-nine below ground, and seven slight accidents above ground and thirty-eight below ground.

The following table gives the number of tons mined per accident, in the Province from the years 1906 to 1911, inclusive:

SUMMARY TABLE SHOWING ACCIDENTS OCCURRING IN MINES
DURING YEARS 1906 TO 1911 INCLUSIVE.

YEAR	OUTPUT	ACCIDENTS			TONS OF COAL MINED PER ACCIDENT		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	25,909	69,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48, 52	141,923
1909	2,174,329	9	42	18	241,592	51,769	120,796
1910	3,036,757	61*	41	58	49,782*	71,067	52,357
1911	1,694,564	7	32	45	242,080	52,955	37,656

*Including thirty-one deaths caused by Bellevue explosion.

TABULATED LIST OF ACCIDENTS OCCURRING IN THE PROVINCE
ABOVE AND BELOW GROUND DURING THE YEAR 1911.

CAUSE	FATAL		SERIOUS		SLIGHT		TOTAL	
	Above	Below	Above	Below	Above	Below	Above	Below
Falls of coal	..	2	..	3	..	8	..	13
Haulage	..	4	..	10	1	9	1	23
Shaft accidents	..	1	..	1	..	..	..	2
Gas explosions	..	..	..	6	..	3	..	9
Falls of rock	..	..	..	4	..	10	..	14
Explosives	..	..	..	4	..	4	..	8
Falling down chute . . .	..	..	..	1	..	..	..	1
Railways cars in mine yards	..	..	1	..	..	..	1	..
Miscellaneous	..	..	2	..	6	4	8	4
Total	..	7	3	29	7	38	10	74

The following tables give the classification of accidents according to the District in which they occurred:

EDMONTON DISTRICT.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Explosions of powder..	..	..	..	1	..	1
Fall of coal	..	..	..	2	..	4
Shot-firing; struck by coal	..	..	..	..	..	2
Haulage	..	..	..	2	..	1
Miscellaneous	..	..	..	..	1	1
Falls of roof	..	..	..	1	..	1
Shaft accidents	..	1	..	1	..	..
Total	..	1	..	7	1	10

CALGARY DISTRICT.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Explosions of fire-damp	..	..	..	4	..	1
Falls of coal	..	1	..	..	..	2
Fall of rock at working face	..	..	..	1	..	1
Haulage	..	1	..	..	1	..
Miscellaneous	..	..	1	..	..	1
Scalded by steam	..	..	..	..	1	..
Total	..	2	1	5	2	5

LETHBRIDGE DISTRICT.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Explosion of fire-damp.	..	..	..	2	..	2
Falls of coal	..	..	..	1	..	..
Haulage	..	..	..	5	..	6
Fall of rock at face ...	..	..	..	1	..	3
Fall of rock on roadways	..	..	..	..	..	1
Miscellaneous	..	..	..	..	3	2
Railways cars	..	..	1	..	..	..
Total	..	..	1	9	3	14

CROW'S NEST PASS DISTRICT.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Explosion of powder ..	..	..	..	3	..	1
Falls of coal	..	1	..	..	..	2
Falls of roof	..	..	..	..	..	2
Falls of rock	..	..	..	1	..	2
Haulage	..	3	..	3	..	2
Miscellaneous	..	..	1	..	1	..
Falling down chute	..	..	..	1	..	..
Total	..	4	1	8	1	9

ACCIDENTS FROM EXPLOSIONS OF FIRE-DAMP OR COAL-DUST
CLASSIFIED ACCORDING TO CAUSE.

CAUSE OF EXPLOSION	Fatal Accidents.		Non-Fatal Accidents Reported to Inspector.	
	Number of separate accidents.	Number of deaths.	Number of separate accidents.	Number of persons injured.
Naked lights	..	..	4	8
Safety lamps	..	..	1	1

ACCIDENTS WITH EXPLOSIVES, CLASSIFIED ACCORDING TO THE
NATURE OF THE EXPLOSIVE.

NAME OF EXPLOSIVE	Fatal Accidents.		Non-Fatal Accidents Reported to Inspector.	
	Number of separate accidents.	Number of deaths.	Number of separate accidents.	Number of persons injured.
Black powder	..	..	2	2
Saxonite	..	..	1	2
Samsonite	..	..	3	3
Monobel	..	..	1	1
Total	..	..	7	8

ACCIDENTS WITH EXPLOSIVES CLASSIFIED ACCORDING TO
THEIR CHARACTER OR CAUSE.

CHARACTER OR CAUSE	Fatal Accidents.		Non-Fatal Accidents Reported to Inspector.	
	Number of separate accidents.	Number of deaths.	Number of separate accidents.	Number of persons injured.
Loose powder ignited by lamp	..	..	2	2
Struck by coal from shot	..	..	2	2
While boring near an unexploded remnant left by incomplete detonation of the charge	..	..	3	4
Total	..	..	7	8

UNDERGROUND HAULAGE ACCIDENTS.

NATURE OF ACCIDENT	Fatal Accidents.		Non-Fatal Accidents Reported to Inspector.	
	Number of separate accidents.	Number of deaths.	Number of separate accidents.	Number of persons injured.
While engaged on haul- age operations	2	2	12	13
While going to or from work	1	2	2	2
Riding on loaded cars..	..	..	1	1
Miscellaneous	..	..	1	1
Total	3	4	16	17

ACCIDENTS CAUSED BY PERSONS BEING RUN OVER OR CRUSHED
BY CARS.

NATURE OF ACCIDENT	Fatal Accidents.		Non-Fatal Accidents Reported to Inspector.	
	Number of separate accidents.	Number of deaths.	Number of separate accidents.	Number of persons injured.
Endless rope haulage ..	..	..	3	4
Compressed air locomo- tives	..	..	3	3
Electrical locomotives..	..	..	1	1
Horse	1	1	6	6
Hand	..	..	3	3
Runaway cars	1	1	..	..
Total	2	2	16	16

The following is a list of all the accidents which have occurred in the Province during the year 1911:

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Jan. 13	Alberta Railway & Irrigation Co., Ltd.	John C. Livingstone.	43	Pit Boss.	Fractured leg. Struck by endless haulage rope.
Feb. 24	Alberta Railway & Irrigation Co., Ltd.	Tom Mozza.	26	Loader	Pelvis bone injured while riding on loaded cars.
Apr. 4	Alberta Railway & Irrigation Co., Ltd.	William D. McMillan.	33	Fire Boss.	Hands and face burned by explosion of firedamp.
Apr. 4	Alberta Railway & Irrigation Co., Ltd.	H. Fairhurst.	52	District Foreman.	Hands and face "burned" by explosion of firedamp.
Dec. 15	Alberta Railway & Irrigation Co., Ltd.	E. Pinn.	26	Driver	Arm and leg bruised. Falling in front of car.
Dec. 15	Alberta Railway & Irrigation Co., Ltd.	S. Trehub.	18	Driver	Arm and leg bruised. Falling in front of car.
Jan. 27	Alberta Coal Mining Co.	A. Lewis.	28	Miner	Ankle bone broken by top coal falling.
Dec. 7	Alberta Consolidated Coal Co., Ltd.	Thomas Hackman.	21	Driver	Arm injured by derailed car.
Dec. 7	Alberta Consolidated Coal Co., Ltd.	Herbert Ross.	27	Miner	Fall of rock slightly injuring back.
Jun. 13	Breckenridge & Lund Coal Co., Ltd.	Andrew Learmouth.	27	Miner	Burned by ignition of firedamp with open light.
Jun. 13	Breckenridge & Lund Coal Co., Ltd.	Richard Watson	29	Miner	Burned by ignition of firedamp with open light.
Aug. 29	Breckenridge & Lund Coal Co., Ltd.	Peter Blake	32	Fire Boss.	Trip of cars going up incline without drag, and while attempting to stop trip, couplings spread and trip ran back, striking him. Fatal.
Jan. 17	Bankhead Mines, Ltd.	C. Hutzcal.	36	Breaker Attendant	Struck by loaded car, causing scalp wound and contusion of muscles of back.
Feb. 7	Bankhead Mines, Ltd.	F. Dutka.	21	Backhand	Fall of coal causing fractured rib and injury to spine.
Mar. 9	Bankhead Mines, Ltd.	G. Biava.	30	Rock miner.	Fall of rock from roof, fracturing right foot.
Aug. 10	Bankhead Mines, Ltd.	G. F. Darskin.	28	Carpenter	Three fingers amputated while working planing machine.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Nov. 24	Canadian Coal Consolidated, Ltd.	Samuel Novacovich	24	Miner	Flips bruised by fall of coal from roof.
Nov. 16	Calgary Coal Syndicate, Ltd.	D. McMullin	30	Miner	Slightly burned by ignition of firedamp.
Nov. 16	Calgary Coal Syndicate, Ltd.	Jos. Shoscinski	28	Miner's helper	Slightly burned by ignition of firedamp.
Feb. 11	Canada West Coal Co., Ltd.	W. Pickering	19	Driver	Crushed between side of road and car while lifting timber off car.
Jan. 31	Canmore Coal Co., Ltd.	Nik K. Ripka	40	Labourer	Prop at face swung, causing fall of coal, which suffocated him.
Dec. 2	Canmore Coal Co., Ltd.	Steve Korshuk	39	Labourer	Fall of rock from face crushing him against car and slightly injuring him.
Dec. 6	Canmore Coal Co., Ltd.	August Nisula	25	Miner	Slightly injured by fall of coal at face.
Jan. 17	Cardiff Collieries, Ltd.	Chris Hawco	22	Miner	Powder ignited by flame of open lamp, burning hands, arms and face.
Jan. 26	Cardiff Collieries, Ltd.	Henry Davis	21	Miner	Fall of coal, cutting him over eye and head.
Feb. 1	Cardiff Collieries, Ltd.	William Pickles	35	Miner	Left leg fractured while erecting timber by top coal falling.
Aug. 15	Cardiff Collieries, Ltd.	Sam. Smith	23	Miner	Struck on shoulder by fall of coal from roof.
Oct. 4	Cardiff Collieries, Ltd.	Frank Pinkart	21	Labourer	Struck by small coal from shot.
Oct. 4	Cardiff Collieries, Ltd.	J. Jawarina	30	Miner	Thumb injured by derailed car.
Oct. 4	Cardiff Collieries, Ltd.	John Tabak	22	Labourer	Struck by small coal from shot.
Nov. 6	Cardiff Collieries, Ltd.	Joseph Van Larkin	40	Miner	Powder ignited by spark from lamp. Slightly burned.
Nov. 13	Cardiff Collieries, Ltd.	Lars Clarkson	34	Miner	Left leg fractured below knee by fall of coal from roof.
Jun. 16	Chinook Coal Co., Ltd.	Vistro Pistro	29	Miner	Ignition of firedamp with open light, slightly burning face and hands.
Jun. 16	Chinook Coal Co., Ltd.	Harry Oslini	25	Miner	Ignition of firedamp with open light, slightly burning face and hands.
Jan. 4	R. W. K. Cousins	Lewis Howells	28	Miner	Ankle sprained by falling.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Jan. 11	Davenport Coal Co., Ltd.	Tim Thinks.	23	Driver	Crushed between car and side of roadway. Fatal.
Jan. 21	Davenport Coal Co., Ltd.	Edwin Smith.	26	Miner	Crushed by fall of coal at face. Fatal.
Mar. 11	Diamond Coal Co., Ltd.	John Rutki.	19	Driver	Fell in front of car, ankle injured.
Mar. 14	Diamond Coal Co., Ltd.	Alexander Balog.	27	Driver	Foot injured, caught between two cars.
Mar. 1	Diamond Coal Co., Ltd.	Charles Bero.	25	Fireman's helper.	Thumb crushed by door of car.
July 4	Diamond Coal Co., Ltd.	Charles Kurge.	27	Labourer	Finger crushed by car.
Nov. 21	Diamond Coal Co., Ltd.	John Frank.	22	Driver	Crushed by horse backing on him. Ruptured bladder.
Dec. 21	Diamond Coal Co., Ltd.	Andrew Barrie.	17	Driver	Fell in front of cars. Right arm fractured.
Jun. 1	Eureka Coal Co., Ltd.	Sampson Sanderson.	39	Miner	Compound fracture of leg by fall of roof.
Sep. 25	Galbraith Coal Co., Ltd.	Leonard Adlam.	27	Miner	Ignition of firedamp by open light, burning arms and neck.
Feb. 11	Golden West Coal Mining Co., Ltd.	Thomas Snowden.	54	Miner	Back bruised by fall of rock from roof.
Jan. 3	Hillcrest Collieries, Ltd.	Nick Marshall.	20	Driver	Struck by car. Shoulder dislocated.
Aug. 14	Hillcrest Collieries, Ltd.	A. Botta.	24	Labourer	Foot crushed while shunting cars.
Sep. 26	Hillcrest Collieries, Ltd.	Napoleon Millette.	31	Machinist	Ankle dislocated while erecting smoke stack.
Oct. 10	Hillcrest Collieries, Ltd.	Frank Selley.	25	Mucker	Leg fractured by fall of rock at face.
Mar. 24	International Coal & Coke Co., Ltd.	Charles Dunlop.	32	Miner	Fall of cap rock. Right foot bruised.
Nov. 28	International Coal & Coke Co., Ltd.	S. Ravelli.	22	Miner	Leg bruised by fall of coal from roof.
Dec. 5	International Coal & Coke Co., Ltd.	John Trats.	33	Chute loader.	Left shoulder bruised by fall of coal from roof.
Dec. 12	Keith & Fulton.	Harry George.	28	Driver	Caught between loaded cars. Fractured leg.
May 5	Lethbridge Collieries, Ltd.	Huntley Cameron.	22	Deckman	Wrists injured. Sprag broke while spragging box car.
May 5	Lethbridge Collieries, Ltd.	Manuel Purdy.	38	Carpenter	Foot crushed by piece of lumber falling.
Feb. 11	Manders Bros.	James Lee.	25	Miner	Left hip bruised by rock falling at face.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Oct. 23	Maple Leaf Coal Co., Ltd.	Joseph Puczorka	21	Miner	Ankle bruised by cap rock falling.
Dec. 29	McGillivray Creek Coal & Coke Co., Ltd.	Thomas Parry	41	Fire boss	Ruptured intestines. Fell while pushing car.
May 2	Joseph Oborn	Beni Maltre	25	Miner	Fractured leg by fall of coal.
Jan. 18	Royal Collieries, Ltd.	George Pear	30	Miner	Toe bruised while unloading machinery.
Jan. 28	Royal Collieries, Ltd.	R. Stevens	35	Carpenter	Head injured and thumb dislocated while repairing tippie.
Aug. 12	Rock Springs Sootless Coal Co., Ltd.	John Pentiluk	21	Loader	Left arm fractured. Fall of roof.
Sep. 15	Rock Springs Sootless Coal Co., Ltd.	Frank Zarnisky	30	Rockman	Left leg fractured. Caught between cars.
Feb. 23	Strathcona Coal Co., Ltd.	David Astley	29	Miner	Caught between car and prop. Fractured wrist.
May 2	St. Albert Collieries, Ltd.	Samson Kidd	33	Shift boss	Plank fell while being lowered in sinking shaft and breaking scaffold on which he was standing, caused him to fall.
May 1	St. Albert Collieries, Ltd.	Robert Stokes	28	Engineer	Struck on neck while starting air compressor.
Nov. 8	Stavely Coal Mining Co.	Daniel Fraser	28	Miner	Collar bone fractured by fall of roof.
July 16	Great West Coal Company, Ltd.	Robert Scott	26	Shaft sinker	Scaffold on which he was standing gave way, causing him to fall to shaft bottom. Fatal.
Oct. 16	Western Coal & Coke Co.	Simon MacDonald	40	Master mechanic	Hands and face scalded by blown-out joint on steam line.
July 5	West Canadian Collieries, Ltd. (Bellevue)	Thomas Rawson	43	Fire boss	Riding on car which became derailed and knocking out set of timbers, caused fall of loose coal, which suffocated him.
July 5	West Canadian Collieries, Ltd. (Bellevue)	Joe Di Plisquala	35	Labourer	Riding on car which became derailed and knocking out set of timbers and caused fall of loose coal, which suffocated him.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
July 8	West Canadian Collieries, Ltd. (Bellevue)...	Harry Blake.....	27	Fire boss.....	Crushed between motor and chute while switching cars. Two ribs fractured and back bruised.
Nov. 23	West Canadian Collieries, Ltd. (Bellevue)...	John Bovio.....	27	Miner	Stumbled while walking along main gangway and fractured leg.
Nov. 20	West Canadian Collieries, Ltd. (Bellevue)...	William Connors.....	37	Miner ..	While drilling hole struck miss-shot. Face slightly cut.
Oct. 14	West Canadian Collieries, Ltd. (Blairmore)...	U. Dock.....	30	Miner	Premature explosion of Samsomite. Eyes injured.
Oct. 23	West Canadian Collieries, Ltd. (Blairmore)...	Matt Green.....	27	Miner ..	Premature explosion of Samsomite. Eyes injured.
Oct. 23	West Canadian Collieries, Ltd. (Blairmore)...	E. Olinski..	22	Miner ..	Premature explosion of Samsomite. Eyes injured.
Dec. 7	West Canadian Collieries, Ltd. (Blairmore)...	O. Onyzuk.....	20	Miner's helper...	Fall of rock. Left ankle, back and hip slightly injured.
Jan. 24	West Canadian Collieries, Ltd. (Lille).....	U. Rotrass.....	22	Dumper ..	Eye punctured. Coming in contact with nail.
Feb. 23	West Canadian Collieries, Ltd. (Lille)...	N. Pautland.....	27	Driver ...	Finger amputated. Lifting derailed car.
Mar. 7	West Canadian Collieries, Ltd. (Lille)...	D. De Gurlio.....	30	Miner's helper.	Fell down chute. Head cut and body bruised.
Dec. 22	West Canadian Collieries, Ltd. (Lille)...	Apa Luigi.....	37	Timberman	Piece of coal fell while setting prop. Head cut.
Jun. 26	Western Coal Co.....	William Hunter.....	39	Timberman ..	Slightly injured while putting up timber.

BELLEVUE EXPLOSION.

About 9 a.m. on Saturday, December 10th, 1910, I received notification at Edmonton by telegram that an explosion had occurred in the No. 1 mine operated by the West Canadian Collieries, Limited, at Bellevue. I proceeded to Bellevue by the first train, arriving there about 9 a.m. on Monday, December 12th.

This mine is one of a group of three operated by The West Canadian Collieries, Ltd., of Blairmore, and is situated on the Crow's Nest Pass branch of the Canadian Pacific Railway, about half a mile east of Hillcrest station, and previous to the explosion was producing an average daily output of 1600 tons, and employing an average number of 450 persons. There are four seams on this property, viz.: Nos. 1, 2, 3 and 4. A rock tunnel 14 feet wide by 7 feet high is driven across the measures intersecting No. 1 seam at a distance of 135 feet, No. 2 at a distance of 258 feet, No. 3 at a distance of 350 feet, and No. 4 at a distance of 500 feet, from the mine entrance. The average inclination of the strata is 45 degrees.

No. 3 seam has not yet been developed.

A gangway was driven north in No. 4 seam for a distance of 2400 feet from the rock tunnel and rooms opened off it. For some time, however, previous to the explosion, this seam was not in operation.

No. 1 seam has an average thickness of from 12 to 13 feet, with a hard rock roof, gangways being driven north and south. The gangway to the south was driven 400 feet when the southern boundary of the property was reached. The gangway to the north was driven a distance of 1600 feet when it was abandoned owing to a fault being encountered.

No. 2 seam, which also averages in thickness from 12 to 13 feet, was opened up on the north side by means of main and counter gangways, which were driven a distance of 3800 feet and stopped owing to a fault being encountered. At the face of this gangway a rock tunnel was driven back across the measures to No. 1 seam. At the point where this rock tunnel intersected No. 1 seam coal of a good quality and 14 feet in thickness was found. A gangway 10 feet wide by 7 feet high was driven north from this point for a distance of 5000 feet from the rock tunnel, and 129 rooms opened off it. The total distance from the main entrance to the face of this entry is 9000 feet. A pillar 40 feet thick is left above the main gangway and above this pillar, a counter gangway 6 feet high by 6 feet wide is driven. From chutes Nos. 1 to 28, rooms 20 feet wide were driven up the pitch and the pillars extracted by the retreating method, a row of two pillars being left to support the main and counter gangways. Chutes Nos. 28, 36, 41, 45, 52, 58, 62, 67 and 71 were driven up the pitch for a distance of 320 feet, and in order to get a better marketable coal, rooms were driven at 50 feet centres from both sides of each of these chutes across the pitch. These rooms were driven an average distance of 150 feet and were 20 feet in width, only small portions, however, of the pillars left between these rooms being extracted. Some time previous to the explosion, the roof where the pillars had been extracted in the neighborhood of chute No. 29, caved through to the surface. Above the top crosscut in chute No. 52, five rooms were opened off and driven up the pitch for distances varying from 15 to 78 feet.

The method of working across the pitch was then abandoned and rooms again driven up the pitch from chute No. 75 to the face of the gangway. It was intended to drive these rooms 20 feet wide with pillars 30 feet thick left in between, crosscuts 6 feet wide by 6 feet high being driven through the pillars between the rooms at 40 feet centres for the purpose of ventilation. Unfortunately, however, this method was not strictly adhered to, as a large number of the rooms and pillars were formed in a very irregular manner; some of these rooms being over 40 feet in width, making it impossible to have the pillars extracted systematically. Chutes Nos. 45 and 81 have been driven through to the surface. Chute No. 81 was driven 500 feet in the coal when an anticline was encountered, after which it was connected to the surface by means of a tunnel driven in rock for a distance of 133 feet. Chute No. 45 was driven right through to the surface in coal, the total length of it from the main gangway being 345 feet. This chute was only used as a second outlet from the mine until another seam was opened up on the surface at a higher level, after which it was partitioned off into two compartments; one compartment being used for dumping the coal from this mine, and the other as a manway to the surface.

Ventilation.—The mine at the time of the explosion was ventilated by a forcing fan of the Sirrocco type. This fan is 60 inches by 78 inches, and I am informed was guaranteed by the makers to produce 100,000 cubic feet of air per minute with a water gauge of 2 inches when running at a speed of 185 revolutions per minute. It, however, did not come up to this guarantee, as it was apparently only capable of producing a quantity of 65,000 cubic feet per minute when running at the above speed. It was electrically driven by a 50 horse-power D.C. motor and in order to increase its capacity, the management had made arrangements to instal a motor of 100 horsepower capacity, but at the time of the explosion this motor had not arrived on the ground.

This fan was situated on the surface at chute No. 2 in No. 2 seam at a point 120 feet north of the rock tunnel that was driven from the entrance to the mine. The air passed down No. 2 chute to the gangway, two doors being placed outside this point on the main gangway so as to direct the air current into the mine workings. From this point the air travelled along the main gangway in No. 2 seam, through the rock tunnel into No. 1 seam, and along the gangway in No. 1 seam to the face. About 20,000 cubic feet of this air, however, was allowed to travel up chute No. 46 to ventilate the rooms working across the pitch, after which it travelled along the old workings to the top of chute No. 81 where it met the main return. The portion of the air which went into the face of the gangway was conducted along the working places and thence back to the main return at chute No. 81. A regulator was placed at the outside of the main return at the top of chute No. 81 to regulate the quantity of air required to ventilate the places working across the pitch, and also the old workings.

Haulage.—The method of haulage adopted at this mine was by means of locomotives driven by compressed air, high pressure pipes being laid along the haulage road to chute No. 124, and charging stations placed at chutes Nos. 26, 37, 84 and 124. A low pressure air pipe is also carried along the haulage road to chute No. 110 for the purpose of supplying power for the operation of rock drills, etc.

The explosion occurred at 7 p.m. on the afternoon shift when there were 47 persons in the mine. Three of these men were working in the rock tunnel which was being driven from the top of chute No. 109 through the anticline to the surface for the purpose of providing another outlet, two each in chutes Nos. 118 to 127 inclusive, two in chute No. 129, eight loaders and one bratticeman in the main gangway between chutes Nos. 118 and 129, four in connection with the compressed air locomotives, four timberpackers in chute No. 52, one track-cleaner, two trappers, one pit-boss and one fire-boss. At the time of the explosion the pit-boss was at chute No. 84 and the fire-boss at chute No. 120. As a result of the explosion, the pit-boss, the track-cleaner, one man in chute No. 118, the two men in chute No. 119, the fourteen men in chutes Nos. 121 to 127 inclusive, the two in chute No. 129, the four timberpackers, four of the loaders and the bratticeman lost their lives.

Immediately after the explosion occurred the mine manager, John W. Powell, was notified, when he proceeded into the mine along with a rescue party. Mr. Elijah Heathcote, District Inspector of Mines, who was at Frank at the time, received a message by telephone informing him of the explosion, when he proceeded to Bellevue and went into the mine about 9.30 p.m. Valuable assistance was also rendered by the different mining men in the district.

A telephone message was sent to Hosmer, B.C., notifying the mine management there that an explosion had occurred at Bellevue to which they immediately responded by bringing a large rescue party, together with 2 two-hour apparatus and 2 half-hour apparatus of the Draeger type. This party arrived at the mine about 2 a.m. on December 10th, and rendered very valuable assistance.

When Mr. Powell got to the mine he was informed that smoke was coming out of chute No. 45, after which he immediately got lamps and proceeded inside with Frank Lewis, the boss-driver and John Anderson, the pit-boss. Before going into the mine he ascertained and found that the fan was running at its normal speed and had not been damaged in any way. He also gave instructions for it to be kept running at this speed until further orders. When this party got in to the ventilation doors near the entrance to No. 2 seam, they met a man named Emmerson coming out and a little further in met another man who was apparently uninjured. Mr. Powell states that at this point there was no evidence to be seen of anything abnormal having taken place. Proceeding into chute No. 43 in No. 1 seam, they encountered a small cave and heard a number of men talking near chute No. 45. When they got into this chute they found three men who were uninjured. At chute No. 43 a timber was blown out, this being the first sign they saw of anything being wrong. They then instructed the men whom they found at this point to go outside, and proceeding a little further in found a man lying with his head cut and bleeding profusely. They put him in a blanket and laid him on the low side of the road, and then proceeded to chute No. 61, where they detected afterdamp for the first time. Between chutes Nos. 45 and 61, a number of small caves had taken place and several timbers were blown down. They then proceeded along the main gangway to chute No. 76, where they again encountered a small percentage of afterdamp. At this point they found other three men overcome by afterdamp, one of

whom they believed to be dead. Mr. Powell states that at this point he could see "a kind of a thick smoke," after which his lamp was extinguished. They brought the men whom they found at this point out to the fresh air and left them there. One of them ultimately recovered, but the other two succumbed. By this time a number of other rescuers had arrived at chute No. 76 and Mr. Powell gave orders to the pit-boss to take another man along with him and close up chute No. 45, so as to force the air to the inside of the mine. He also instructed others to obtain canvas and brattice boards and repair the stoppings between the main and counter gangways, a number of men being started along the gangway at different points to do this work. After these stoppings had been repaired, the rescue party were able to get into chute No. 80, when they saw several lights burning inside and heard the compressed air blowing off. Several of the rescue party then made a dash into chute No. 84, where they found 19 bodies lying near the charging station, the standpipe of which had been broken off thus allowing the compressed air to escape. Parties of four were then organized, and these bodies were brought out to the fresh air and laid alongside the gangway, the repairing of the stoppings being meanwhile proceeded with.

About this time Mr. Robert Strachan, one of the inspectors of mines from British Columbia, arrived with a rescue party, bringing with them the Draeger Rescue apparatus. Mr. Strachan and a man named Frederick D. Alderson each put on an apparatus and proceeded further into the mine. After they had been gone a few minutes, Alderson returned and after consultation it was decided to discontinue the repairing of the stoppings as the ventilating current was forcing the afterdamp in where the imprisoned men were. The broken charging station at chute No. 84 was then plugged up so as to divert more compressed air into the inner parts of the mine. Alderson then proceeded inside with the rescue apparatus on and brought out a man named Heal. Alderson then proceeded inside again and Mr. Strachan came out. When Alderson went in the last time he had on one apparatus and was carrying another in his hand, and it is supposed that he dropped the one which he was carrying. Mr. Strachan stated at this time that the plugging of the compressed air pipe and thus diverting the compressed air to the inside had been of great assistance. A man named Matusky then proceeded inside with an apparatus on, but immediately returned to the outside again and stated that the men inside were in such a condition that it was impossible to get the apparatus on to them. Alderson for some reason or other while again proceeding inside with the rescue apparatus on became unconscious and when assistance reached him, was found to be dead.

A consultation was then held and instructions given to the members of the rescue party to divide themselves into distances 10 feet apart and make a further attempt to continue the work of rescue. There were about 24 men engaged at this work, all of whom, however, were overcome by the effects of the afterdamp and became unconscious, but eventually recovered when brought out to the fresh air by another party of rescuers who were waiting in readiness for such an emergency. After a little further delay another attempt was made which resulted in the men who were still alive inside being rescued. Operations were then proceeded with for the purpose of rescuing 4 men who were in chute No. 52,

all of whom, however, when found were dead. Three of these bodies were recovered on Saturday, December 10th, and one on Monday, December 12th. On several of the bodies found in chute No. 52, matches and smoking tobacco were found and on one of them a pipe.

Mr. Elijah Heathcote, District Inspector of Mines, states that at 9 p.m. on December 9th, while he was at Frank, he received notification that an explosion had occurred at Bellevue, when he immediately proceeded there, arriving about 9.20 p.m. He went into the mine as far as chute No. 43 where he found the first sign of any damage being done. At this point he found a man lying with his head badly injured and dead. After he had taken steps to see that this body was taken outside, he went into chute No. 60, where he met Mr. John W. Powell, the Mine Manager. On inquiring, he ascertained that steps had been taken to have the stoppings repaired in order to conduct the ventilation into the workings. Powell then went in with him as far as chute No. 81, where they encountered afterdamp. At this point they could hear the compressed air blowing off at the broken charging station at chute No. 84, meanwhile giving their attention to the hurrying on of the work of the repairing of the stoppings. About this time the afterdamp began to increase about chute No. 74 on the main gangway, and as the men who were working at the stoppings were beginning to feel the effects of the afterdamp, it was considered advisable to withdraw them. After inspecting the stoppings he found that chutes Nos. 53, 54 and 55 had been overlooked and started men on to repair them. He again went back to chute No. 82 where he found that parties of four had been organized for the purpose of bringing the men out from chute No. 84. At this time which was probably about 2 a.m. nineteen bodies had been recovered. When the rescue party with the Draeger apparatus had gone into the mine, Mr. Heathcote came out with Mr. James Ashworth, and found that the two ventilating doors on the main gangway had been propped open, thus interfering with the air current passing into the mine.

When I arrived at Bellevue on the morning of December 12th, after obtaining all the information that I could and before making a personal investigation of the mine, I forwarded to you the following telegram:

"Total dead, thirty-one, including one of rescue party, and one body still to be recovered. Everything possible appears to have been done towards rescuing. Going into mine now to make investigation. Heathcote states he was in mine five hours last Wednesday and inspected most working places, but did not find gas. Explosion may have been caused by cave, but pipe, matches and tobacco found on dead bodies which were burned most, which might show that explosion was caused by matches lighted by this person; see general rule 7 Coal Mines Act. Wiring later. All this is official statement from Heathcote and management, but will obtain proof."

As one of the bodies had not been recovered at this time, I proceeded into the mine where I met the rescue party under the charge of Mr. Powell at chute No. 52 coming out with this body. I then returned to the outside and forwarded to you the following telegram:

"All bodies recovered, total thirty-one correct, not yet able to arrive at cause of explosion, but continuing investigation."

On the morning of December 13th I again went into the mine accompanied by Mr. James Ashworth, Mr. Lewis Stockett, Mr. Heathcote and several of the mine officials. We went into the face of the main gangway in No. 1 seam, through several of the working places and came back to chute No. 75, where we found that a large cave of rock had taken place between chutes Nos. 74 and 76 above the pillar above the counter gangway. As there was a considerable portion of the roof hanging in this part of the mine in a very dangerous condition, we came to the conclusion that as there was probably a considerable amount of gas in the mine owing to the ventilation being deranged, and that if another cave was to take place there was a considerable chance of another explosion. We were, however, unable owing to the very broken condition of the roof to ascertain how far the cave extended up the pitch. Accompanied by several officials of the mine, I travelled over the lower portions of this cave and then proceeded out along the main gangway to chute No. 52. Accompanied by Powell, Greene and Anderson, I went up chute No. 52 to the 4th cross-pitch, this being the place where the last four bodies to be taken out of the mine were found. After making as thorough an investigation as possible of this portion of the mine, we returned outside.

On this inspection, the first sign we had of any damage being done was at chute No. 43, the bottom of which was blown down. All the chutes between Nos. 43 and 53 were intact. The bottoms of chutes Nos. 53, 54 and 55 were also blown down and a considerable amount of debris was lying on the main gangway between chutes Nos. 53 and 54. About 8 or 9 feet inside chute No. 62, two timbers were blown down, and upon examining these timbers, we found there was a considerable amount of mud on both sides of them. One of these timbers was not completely blown out, the prop below the bottom end of it only being blown out. As this timber was blown inwards the evidence at this point went to show that the force of the explosion was travelling inwards. It also appeared as if something had struck this leg on the inside, but whether it had been struck at the time of the explosion or previous to it, it was impossible to say. We next went to a rock tunnel which has been driven from the main gangway at chute No. 62 in an easterly direction for the purpose of developing another seam. At the entrance to this tunnel and on the high side of the main gangway a small hand fan made of sheet iron was standing, but showed no signs whatever of being damaged. We then went into the face of the rock tunnel, but found it quite clear and no gas present. The bottom of chutes Nos. 63, 64, 65 and 66 were blown down. Chutes Nos. 68 to 72 inclusive were not damaged; chutes Nos. 73, 74 and 75 were slightly damaged; chute No. 75 being more damaged than 73. Chute No. 76 was completely blown out. Chutes Nos. 77, 78 and 79 were also badly damaged, although chute No. 79 was not so badly damaged as chute No. 78. A set of timbers was blown out on the main gangway at chute No. 82. Chutes Nos. 85 and 86 were badly damaged and chute No. 90 slightly damaged. Chute No. 91 was not damaged. A loaded car which was standing on the main gangway between chutes Nos. 99 and 100 had mud about one and a half inches thick blown on the outside end of it. The evidence at this part of the mine appeared

to show that the force of the explosion was travelling inwards. There was practically no damage done from here into the face of the main gangway, and although the ventilation had been deranged for a period of nearly three days there was no gas present at the face of the main gangway. Chute No. 129, however, which had been driven up 14 feet from the main gangway and which was not through to the counter gangway had a considerable amount of gas in it. We then proceeded up chute No. 78 to the counter gangway and travelled along this gangway to chute No. 76. Along with Powell and Anderson I proceeded up chute No. 76 above the counter gangway pillar and travelled along to chute No. 72 and found the roof of this part of the mine very badly broken and a considerable amount of rock lying on the pavement. We then returned along the main gangway to chute No. 62 and proceeded up it to the 4th cross-pitch. As the timber had all been blown out of this chute and it is pitching at an angle of about 55 degrees, it was necessary for us to climb up with the assistance of a rope. Between the 3rd and 4th cross-pitches we found the chute blocked with coal, and after getting this coal cleared away we went up to the 4th cross-pitch. There was practically no damage done in this cross-pitch, and the only sign we could see of the result of the explosion was that the coal dust which was adhering to a timber at the corner of the chute and the 4th cross-pitch was slightly coked, although it had the appearance that it had not been subjected to any great degree of heat. As a number of men had been working in this place for the two days previous to my visit, it was difficult to obtain any evidence indicating the direction in which the force of the explosion had travelled. After completing this investigation, we came to the conclusion that the probable seat of the explosion was where the cave took place between chutes Nos. 74 and 76 above the pillar above the counter gangway, and that the force split at that point, a portion of it going down different chutes to the main gangway and the remainder going across the old workings to chute No. 62. The portion which went immediately down into the main gangway appeared to have split part of it going inwards along the gangway where it spent itself about chute No. 105, the other part travelling outwards. The portion which went along the old workings appeared to go as far as chute No. 52 where it travelled down to the main gangway, a portion of it going outward where it spent itself about chute No. 43 and the other portion travelling inwards.

After returning to the mine office I telegraphed you to the effect that all the bodies, numbering thirty-one, had been recovered, but that we were not yet able to arrive at a definite conclusion as to the cause of the explosion.

On December 13th I again forwarded to you the following telegram:—"Have made as thorough an investigation of the mine as possible. Believe primary cause of explosion was cave of roof, but whether it caused ignition of standing gas or gas accumulated above sagging roof, unable yet to determine. Another cave seems probable, no persons allowed in mine now. Ashworth and Stockett have also been investigating."

On December 14th I also telegraphed you as follows:—"No person being allowed in Bellevue mine until decision has been reached re cause of explosion and precautions necessary, as another explosion almost certain owing to shattered condition of roof."

On December 19th I arrived at Bellevue to attend the inquest to be held for the purpose of inquiring into the cause of the deaths of the 31 persons who lost their lives in the mine. A jury composed of six men was empanelled, but as a number of the members of this jury stated that they were of opinion that they were not qualified to go further into the matter than to say from what cause these men met their deaths and did not feel justified in giving a verdict regarding the cause of the explosion, they were dismissed. A new jury composed of ten men was then formed for the purpose of conducting this inquest met on January 3rd, 1911, and after hearing evidence, gave their verdict on January 13th, 1911.

A large amount of evidence was taken at this inquest, and as it is not necessary to give it in detail, I will give that which has the greatest bearing on the catastrophe.

Dr. Malcolmson stated that on the evening of December 9th he was notified that an accident had occurred at Bellevue and he immediately proceeded there arriving at the mine about 9 p.m. He stated that he examined twenty-seven bodies and that in his opinion they all came to their deaths as the result of carbon-monoxide poisoning, with possibly the exception of one man, the upper portion of whose head was badly injured and looked as if the skull must have been hit with something. He was absolutely sure that the other twenty-six had died from the effects of carbon-monoxide poisoning. He was led to this opinion by the placid appearance of the bodies and stated that they showed absolutely no sign of suffering whatever. He further stated that the pink colouring of the cheeks and lips and in fact the whole bodies were more than life-like. He also stated that there were no signs of burning on any of the twenty-seven bodies which he examined.

Dr. Ross of Hillcrest, who arrived at the mine about 8 o'clock on the night of the explosion stated that he saw five bodies, and that he was of the opinion that with the exception of one man who had his skull injured, that they all presented evidences of carbon-monoxide poisoning. He administered stimulants to a number of those who came out alive but who were apparently suffering from slight gas-poisoning. Unfortunately, however, for some reason or other the four bodies which were found in the 4th cross-pitch in chute No. 52 were not medically examined. Three of these bodies were brought out on Saturday evening and one on Monday forenoon.

Dr. J. W. McKay of Blairmore stated that he had also seen the first twenty-seven bodies which were brought out and that he quite agreed with the opinions given by Dr. Malcolmson and Dr. Ross. He also stated that he was of opinion that there were no indications of burning on any of the bodies which he saw.

James Allsopp, a miner employed at Bellevue, stated that he washed two of the three bodies that were brought out of the mine on the evening of Saturday, December 10th, and that the skin on their hands was "ruffled up." He also stated, however, that their eyebrows, hair and moustaches were not burned. On one of the two bodies which he washed he found a pipe, matches and tobacco and on the other body, matches, but no pipe nor tobacco. He gave the pipe, matches and tobacco which he took off these bodies to Mr. John W. Powell, mine manager. In cross-examination Allsopp stated that these bodies might have been burned although he was not prepared to swear to it either one way or another; he further

admitted upon cross-examination that he kept the pipe, matches and tobacco in his pocket over the night of December 10th, and delivered them to Mr. Powell, the mine manager, on the following day, and also that he told Mr. James Burke, secretary of the Bellevue Local Union, that he had found matches on these bodies.

Robert Livett, who is employed at Bellevue, stated that he assisted to bring out the three bodies which were found in chute No. 52 and that he found the first body between the 3rd and 4th cross-pitches "lying down beside the rib." The second body was found about 25 or 30 feet away from the first one, and the third body about 6 feet further in than the second one. Livett also stated that in chute No. 52 there were no signs of burning to be found, but that the coal was too hot to keep his hand on for any length of time. This was in chute No. 52, between the third and fourth cross-pitches. Livett, who was working on the day of the accident in chute No. 56 which opens off the top cross-pitch on the west side of chute No. 52, stated that when he left his work between three and four o'clock that afternoon that there was no sign of gas in that place. In cross-examination Livett also stated that if he had found at any time while he was working in the mine, any reason to complain about the presence of gas he would have reported it to the management.

Andrew Matson, who was driving a rock tunnel through the anticline from the top of the workings between chutes Nos. 109 and 110, for the purpose of making a communication to the surface, commenced work at 3 o'clock on the afternoon of December 9th. The first intimation that he had that anything abnormal had occurred was about 7 p.m., when the compressed air used for operating his drilling machine was cut off, after which, he states, he saw a lot of smoke rushing into his place. He was of the opinion that this was powder smoke and that it was travelling with the ventilation. He, however, did not attach any importance to this fact as it gave him no intimation that anything unusual had occurred, and as a matter of fact he sat down and commenced to eat his lunch. He then told his partner, Neils, to go down to the main gangway and find out the reason why the compressed air had been shut off. About ten minutes after this, he noticed that the ventilation had also stopped. After the smoke had been coming for about three minutes, it cleared away and everything appeared to be quite normal. When he noticed that the ventilation had stopped he proceeded down to the main gangway, when he met a man named Pynno coming up chute No. 110. Pynno, however, did not appear to know that anything unusual had occurred. When they got down to the main gangway they proceeded into the face of the gangway and found there was no sign of any smoke; the only thing unusual being that all the trap doors in the chutes were open. After they had got to the face of the main gangway and were returning, they found at chute No. 107 a slight trace of afterdamp but no gas could be detected on their lamps. They then proceeded out to chute No. 104 where they found that the afterdamp was getting stronger, and proceeding further out to chute No. 95, they met three men who informed them that they could not proceed out any further along the main gangway owing to the presence of afterdamp. At this time a number of men were lying down at chute No. 84 apparently overcome. Matson along with others, then returned to chute No. 104 where a compressed air locomotive

was standing and proceeded to allow some of the air contained in the tank of the locomotive to escape, in order to revive themselves, as they were by this time beginning to feel the effects of the afterdamp. They then proceeded into chute No. 124 with the expectation that they could obtain a further supply of compressed air at the charging station at this place, but were disappointed as there was no air in the pipe. It appears that at the time the explosion occurred, something must have broken the charging pipe at the charging station at chute No. 84, with the result that the compressed air was allowed to escape. When this happened the engineer in charge of the air compressing plant, upon noticing that the gauge showed a sudden decrease in pressure, immediately stopped the air compressor, which unfortunately was not again started until about four hours after the explosion occurred. Up to the time that these men were rescued between two and three o'clock on the morning of December 10th, there was no sign of afterdamp at chute No. 124, where there were 8 men gathered. About this time the party with the rescue apparatus arrived and after some slight delay the imprisoned men whose lamps had been burning throughout in a normal condition, were got out.

At this time it appears that there were 21 men found dead at the charging station at chute No. 84. These men who were all foreigners, but most of whom I understand could talk English fairly well, were advised repeatedly by the men who were inside to go in with them to charging station at chute No. 124, but refused. If they had done so, it is very probable that some of their lives at least would have been saved.

It will probably be well at this point to refer to a previous explosion which occurred in this mine.

On the morning of October 31st, 1910, an explosion took place in this mine, but at the time there were no persons inside. Monday, October 31st, being Thanksgiving Day, work was suspended at midnight on the Saturday previous, and no person was in the mine from that time until after this explosion had occurred. The first indication that anyone had that something of this nature had happened was, that a cloud of coal-dust was seen being ejected from chute No. 81, after which a party was immediately organized for the purpose of having the mine examined. The fan had been stopped for about nine hours on Sunday, October 30th, for repairs, and it is probable that a considerable quantity of gas had collected in the mine. When the mine was examined by this exploring party, it was found that a cave of rock had occurred immediately above the counter gangway pillar between chutes Nos. 71 and 74. This cave was about 4 feet thick and extended up the pitch for a distance of about 80 feet. Acting upon instructions from me, Mr. Elijah Heathcote, District Inspector of Mines, proceeded to Bellevue and made an investigation on November 2nd into the cause of this explosion.

In the report which Mr. Heathcote made on this investigation to the Department, he stated that along with several of the officials of the mine he went along the main gangway, and until he got to chute No. 14, there was no sign of anything unusual having occurred. From chutes Nos. 14 to 20, thick coating of dust was seen on the inside of several of the electric globes, while a few of these were broken. At No. 27 parting, which extends from chutes Nos. 27 to 36, a trip of loaded cars was standing intact, two inches

of mud, however, being blown on the sides and corner of the cars, and coal and debris lying on the main gangway, which showed in his opinion, that the force of the explosion travelled from chute No. 58 outwards to chute No. 27. At chute No. 58, strong evidence was had of the force of the blast, props being blown down and a considerable amount of coal and debris lying on the gangway. At chute No. 65, considerable quantities of coal and rock were also found on the gangway. He then proceeded up chute No. 65, and along the counter gangway to chute No. 67, where signs of coking were found on the inner sides of the props, showing that the force of the explosion must have travelled outwards against the air current. From chutes Nos. 67 to 71, coking was also found on the outer sides of the props, although there was a little dust and slight traces of coking on the inner side of the same props, indicating that from chutes Nos. 67 to 71 the force of the explosion must have recoiled. He then proceeded up chute No. 71 where he found that a large cave of rock had occurred. He was informed that this cave had not occurred on Saturday, October 29th. This cave which took place between chutes Nos. 71 and 74, extended from the top of the counter gangway pillar up the pitch for a distance of 250 feet. From other evidence which he obtained in this portion of the mine, he was of the opinion that the force must have split at chute No. 81, one portion travelling up chute No. 81 to the surface and another portion travelling through the cross-cuts off chute No. 81, and travelling down chute No. 85 to the gangway. From chutes Nos. 99 to 103 the indications were that the force of the explosion had travelled inwards. From chute No. 103 inward, the force of the explosion seemed to have been spent owing probably to the damp state of the mine. From chutes No. 96 to 104, there is a siding on which there were several empty cars; the first two of these cars being blown from the empty track to the loaded track and the couplings between them twisted. Mud was found on both the inside and outside ends of these cars, which would tend to show that the outward and inward forces of the explosion might have met at this point.

As a result of this investigation Mr. Heathcote forwarded the following letter to the West Canadian Collieries, Limited.

“R. W. COULTHARD, Esq.,
General Manager,
 West Canadian Collieries, Ltd.,
 Blairmore, Alberta.

Sir,—

In our recent conversation of November 3rd, 1910, in Bellevue Hotel re cause of explosion in Bellevue mine, I pointed out to you the cause, that is the roof caving causing a succession of sparks which must have fired some gas in the immediate vicinity of the cave. My opinion when placed before you, you accepted as being the only solution of the cause of the explosion, and we both said that had the explosion occurred when a full working force of men had been in the mine, a large loss of life would have been the result.

We cannot prevent the taking out of the coal and we cannot prevent the roof from breaking down, but might I suggest to you that where pillars of coal have been taken out and a large area of roof laid bare, that a good sweeping ventilation is constantly kept

going through such places until the roof has caved, but this means the gas will be carried away and will eliminate one factor of danger. I would like your hearty co-operation in this matter.

Your obedient servant,

(Sgd.) ELIJAH HEATHCOTE,
District Inspector of Mines."

In reply to the above, the following letter was received from Mr. R. W. Coulthard:

"BLAIRMORE, November 14, 1910.

ELIJAH HEATHCOTE, Esq.,
District Inspector of Mines,
Macleod, Alberta.

Dear Sir—I have your letter of 11th inst. in regard to the cave-in at our Bellevue mine on 31st of October last. Also I note your remarks as to what we consider the probable cause of the damage to the mine. I do not remember, however, having made the statement that this was the only solution, because a thorough investigation of the affair in the part affected had not been made.

I might say however, that I am having this matter taken up very carefully with a view to giving the upper workings access to the surface, and expect in a few days to arrive at some decision in regard to the plan of operation.

Yours truly,

WEST CANADIAN COLLIERIES, LIMITED,
(Sgd.) R. W. COULTHARD,
General Manager."

It was assumed that as the fan had been standing for repairs for about two hours on October 29th and again for nine hours on Sunday, October 30th, that gas had probably been allowed to accumulate in the old workings, but that under normal conditions with sufficient ventilation passing through the mine, these workings would be free from gas. After the stoppings, etc., had been repaired in the mine, work was again resumed on Wednesday, November 6th.

Mr. James Ashworth, General Manager of The Crow's Nest Pass Coal Company, Limited, Fernie, who was called upon by The West Canadian Collieries, Ltd., to inspect the mine after the explosion which occurred on October 30th, 1910, and who was present at the rescue work after the explosion on December 9th, 1910, was called upon to give evidence at the inquest, by the representatives of the Miners' Union. He stated he was of the opinion that there was no explosion of fire-damp whatever in the mine and also gave it as his opinion that what is known as the "Percussion Theory" was entirely responsible for the catastrophe.

After Mr. Ashworth had completed his evidence, the jury retired, and after consideration gave the following verdict, with several riders attached:

"That thirty men came to their deaths by carbon-monoxide poisoning, and one by a combination of carbon-monoxide poison-

ing and fractured skull, the said carbon-monoxide and fractured skull being caused by the percussion of air caused by a cave of rock over chutes Nos. 76 to 78.

The jury respectfully submit the following riders to their verdict:

- (1) That more mine inspectors be appointed.
- (2) That a Draeger apparatus station be provided in this district.
- (3) That telephones be installed under the supervision of the Chief Inspector of Mines where practicable in the underground workings of coal mines.
- (4) That a thorough investigation be made of means of preventing the loss of life by caving in coal mines.
- (5) We consider that negligence is in evidence on the part of both operators and miners in the carrying out of the provisions of The Coal Miners Act, and we most strongly recommend a stricter adherence to the intent of this Act."

On December 3rd, 1910, the following telegrams passed between Mr. James Burke of Bellevue and the Department:

"Bellevue, December 3rd, 1910.

The Bellevue Miners' Union desires the presence of the inspector at Bellevue immediately. (Signed) James Burke, Secretary." To which I replied by wire on same date as follows:—"For what reason is inspector required at Bellevue? Wire immediately." And in reply I received from Mr. Burke the following wire on December 4th:—"There is gas in considerable quantity in the mine ever since the explosion. (Signed) James Burke, Secretary." To which I replied by wire on December 4th to Mr. Burke:—"Your wire received, have instructed Inspector Heathcote to make investigation at Bellevue immediately." At the same time I wired Mr. Heathcote as follows:—"Wire received from Secretary Miner's Union that considerable quantity of gas in Bellevue mine, investigate immediately." To which Mr. Heathcote replied on December 5th wire:—"Will investigate Bellevue." Apparently Mr. Heathcote did not attach the importance to this matter which my wire to him would imply and as a consequence did not inspect Bellevue mine until December 7th.

In the report which Mr. Heathcote made under date December 16th, 1910, to the Department on the investigation which he made on December 7th in accordance with above telegrams, he states that he discussed the matter with Mr. J. W. Powell, mine manager, who informed him that there was no gas in any appreciable quantity in the mine. When he examined the fire boss report book he found the following entries:—

- December 6th, 11 p.m.—Gas in 128, brattice too far back.
Being attended to.
- December 7th, 8 a.m.—Clear of gas, ventilation good.
- December 7th, 3 p.m.—Gas in 129 owing to compressed air
being cut off.
- December 7th, 3 p.m.—All clear.
- December 7th, 11 p.m.—Gas in 128. Brattice too far back.

At this time chute No. 129 was being driven from the main to the counter gangway, and was up about 14 feet above the main gangway. The above reports are for the several districts in the mine and Mr. Heathcote states that knowing that under ordinary circumstances the ventilation would be most deficient at the furthest in point, and if any gas was present it would most likely be in the inner workings, he went along the main gangway to the face and travelled back across the rooms to chute No. 119 and inquired from all the men who were working in these places if they had seen gas at any time, and the answer invariably was "No," except in chute No. 123 where a man named "Beck" was working and who stated that gas had been found 3 feet back from the face, the brattice being 12 feet back, but that the room was stopped until the gas had been cleared out. This was about 9 or 10 days previous to the date on which Mr. Heathcote made this investigation. George Grosso, who was working in chute No. 121 and Andy Zisker who was working in chute No. 120 also stated that they found gas pretty nearly every night when working on the night shift, but did not find any when working on the day shift. He then inquired from John Anderson, the pit boss, if there was any place where gas had accumulated in the mine, and he was informed that there was not. Mr. Heathcote did not visit the other places in the mine as he states he did not consider it necessary as he was informed by the pit boss that good ventilation was passing through these rooms. After returning he posted the following notice up at the mouth of the mine in accordance with The Coal Mines Act: "I have examined the No. 1 seam and found timbering, ventilation and general conditions to be good. Did not find any gas present."

According to the evidence which was obtained at the inquest, Mr. Burke meant that there had been a considerable amount of gas in the working places, but it has been clearly proved since that this was erroneous, and that there was no gas standing in any of the working places in the mine.

I herewith attach copy of the report which Mr. Heathcote forwarded to the Department on November 11th, 1910, on the explosion which occurred on Monday, October 31st, 1910.

"Macleod, November 11th, 1910.

Sir,—I beg to submit my report on the explosion which occurred in mine No. 87, Bellevue, of the West Canadian Collieries, Blairmore, on Monday the 31st day of October, 1910, about twelve o'clock noon. Receiving an urgent telegram to go at once, I investigated the cause of the explosion on the 2nd day of November, 1910.

Examining fire boss report book I found gas reported in 122, 123, 124, 125, 126 and 127 rooms on October 29th owing to a stoppage of the fan for two hours. Men withdrawn from these rooms, fan started at 1.30 p.m.

Monday, October the 31st being Labour Day and a holiday, no one was in the mine after twelve o'clock midnight on October 29th, until Monday morning, October 31st, when dust was seen coming to the surface at 81 chute and through the big cave at No. 28 chute, which big cave occurred in the pillars at 28 some time ago. At the rock tunnel in No. 1 gangway, 63,000 cubic feet of air was circulating in the mine, this is above the usual average, the

air short circuiting owing to the stoppings being blown out at 28 and inwards.

Proceeding along the main gangway the first indications were seen from 14 to 20 chutes some of the electric globes were broken, and a thick coating of dust was seen on the inward side of the globes. At 27 parting, loaded cars were standing intact, but inches of mud were blown on the corners and sides of the cars, and coal blown along the track, the blast coming from the inside outwards from 27 to 58 chute, strong evidence was seen of the force of the blast. At 58 the chute and props were blown down, coal and debris being strewn along the track outwards. At 65 chute the main gangway was blocked with water owing to the coal and rock blocking the passage of the water; proceeding up 65 chute along the counter gangway to 67 chute, coking was found on the inside of the props, showing that the flame must have travelled outwards against the air current from 67 to 71 chutes. The coking was on the outward side of the props, dust and a trace of coke on the inside of the props, showing that from 67 to 71 the flame must have kicked back, proceeding up 71 to a big cave of rock, the rocks in the cave being of an immense size. The pillars from 61 to 70 had been extracted and this big cave of rock had not taken place on Saturday, the 29th of October. On the outside of the cave, rooms 52 and 57 and pillars 59 and 60 are working, getting round the cave up 75 chute to the face of the pillar, 250 feet up from the gangway. From 71 to 75 the stoppings in the counter gangway are blown inwards, and from 75 to 85 the stoppings are blown outwards showing that the blast must have split at 81 chute, one portion travelling up 81 manway to the surface blowing out the dust, and another portion must have travelled through the cross-cuts off 81 returning down 85 and blowing the stoppings outwards. At 85 chute the stopping in the counter gangway has a large hole in the middle and remains intact. From 99 to 103 the stoppings are blown inwards, and the sheet iron in the rooms is twisted and bent and blown inwards into the counter gangway. At 103 chute the stoppings are intact, and at 110 the force of the explosion is spent, owing to the damp and wet state of the mine. From 96 chute to 104 in the main gangway is a large parting, and some empty cars standing. The first two empty cars are blown from the empty track on to the loaded track, the coupling being bent straight and mud is on the corners of the inward and outward ends of the cars, showing that the two forces of the blast must have met at this point.

There are two questions to consider in this remarkable case, which wrought such havoc in the mine. What is it, a wind blast or was it an explosion? It was not a wind blast because the coking on the props proves that there was flame, and if flame was produced there must have been an explosion, but how did such an explosion occur when no lights were in the mine at the time, no damaged safety lamps, no person in the mine who could have had any matches in their possession? Where did the explosion start?

I am of the opinion that the explosion started in the place where the pillars had been taken out between 61 and 70 chutes, and where the big cave of rock occurred, now, the lift from the main gangway to the rise of the mine to the surface is 500 feet. The pillars are extracted to the outcrop. The fan was stopped on Sunday, October the 30th, from 7.30 a.m. to 4.30 p.m. for repairs.

From 4.30 p.m. Sunday afternoon to 12 o'clock Monday there was time to sweep any gas out of the rooms which were working, but in the place where the pillars had been extracted and nearest the outcrop, gas would be lodged. The big cave of rock would occur some time during Monday morning, and the rock which is of a hard gritty sandstone mixed with conglomerate, would, in falling, produce a succession of inflammable sparks due to the edges of the rocks striking each other in falling. The cave would not all fall at once, a large portion would fall first which would cause a vacuum and the gas would be drawn into this vacuum, other rocks would fall causing a succession of sparks which would fire the gas. During the weighting of the rocks before falling, the roof would have a large lateral draw on the solid coal which would no doubt squeeze out the occluded gases from the coal.

If the caving of the roof had occurred on a working day there would have been a large loss of life.

In my opinion to prevent as far as possible such an accident would be to have all the old wastes where pillars have been taken out kept well ventilated.

(Signed) ELIJAH HEATHCOTE,
District Inspector of Mines."

On December 7th two men, James Cardle and Angelo Bovio were sent by the pit boss, John Anderson, to make an inspection of the old workings to ascertain whether or not gas was present there. They made this inspection and on the following day reported to Anderson that they had found gas at the top of chute No. 64 or 65 in a pocket close to the roof, but it was impossible for them to tell, owing to the broken state of the roof, what was the extent of this pocket. They also found gas in chute No. 74 but only a small quantity. As they could not cross over owing to the dangerous condition of the roof from chutes Nos. 64 to 74, it was impossible for them to tell whether or not gas was present right along this portion of the workings. You will note, however, that apparently they did not consider it important enough to report the presence of this gas to anyone in authority until the following day.

After obtaining all the evidence possible in connection with this catastrophe, I am of the opinion that it was caused by a cave of rock. When this cave took place, the gas which had accumulated in the old workings, and which at that time was probably not within the explosive limit, would be forced down and diffused to such an extent with the air that it became explosive. By rocks striking each other when falling and sliding down the pitch, this gas would be ignited and the explosion would result. I am of the opinion, however, that there was only a small quantity of gas in the mine when it occurred, as it has been clearly proved that there was none in the working places and any that could have been present must have been in the higher portion of the abandoned workings between chutes Nos. 62 and 74. The comparatively small amount of damage that was done to the mine would also tend to show that there had only been a small amount of gas present. Sometime during the latter week of January, a third explosion took place which considerably damaged the workings of the mine. After taking into consideration the different facts in connection with the three explosions, one is forced to the opinion that the

ignition of gas had a considerable amount to do with the different occurrences. The first explosion which occurred on October 31st, 1910, occurred after the fan had been standing a few hours, and consequently a considerable amount of gas must have accumulated in the mine. There was more damage done to the mine by this explosion than there was by the one which occurred on December 9th, 1910. The explosion which occurred on December 9th, however, did less damage to the mine than the other 2 explosions did, owing I believe, to the fact that the fan had been running right along and had not stopped for some time previous to the time that this explosion occurred. The explosion which occurred during the last week of January, 1911, occurred after the fan had been standing about 6 weeks, and consequently when the mine would contain a very large amount of standing gas. This last explosion was certainly the most violent in so far as damage to the mine was concerned.

Prof. John Cadman, of Birmingham University, England, and Mr. George S. Rice of the United States Bureau of Mines, who have both examined the mine since the explosion occurred, both agree with me as to the cause of it. Prof. Cadman took samples of the caved rock away with him, and has since informed me that after a series of experiments conducted by him at Birmingham University, he is astonished at the ease with which the sparks caused by striking two pieces of this rock together will cause the ignition of gas.

There was some question raised at the inquest as to the reliability or otherwise of the plans of the mine workings, but so far as I could ascertain they appear to be accurate, but owing to the irregular way in which the rooms and pillars have been formed, it was impossible to say whether or not this was so.

I am of the opinion that if the 21 men who were found dead at No. 84 charging station had gone inside to No. 124 charging station when they were advised to do so by the other men who were rescued, that the probability is that they would have been saved.

I am also of the opinion that if the air compressing plant had been kept in operation continually after the explosion, and not stopped for four hours as it was, the probability is that a number of the men at least who were found dead at No. 84 charging station would have been able to obtain a sufficient supply of fresh air to keep them alive until assistance reached them.

Another point which has to be taken into account is the fact that a pipe, matches and tobacco were found on several of the bodies and while the management cannot be held directly responsible for this, I am of the opinion that they should give this question more attention than they have been doing, by occasionally making a search of the clothing of the persons employed underground. Although the pipe which was said to have been found on one of the bodies which was said to be burned, was later on claimed by another man who was working in the mine, I believe there was no question that some of those employed in the mine at least had matches in their possession in contravention of The Coal Mines Act.

Regarding the different riders added to the verdict of the jury that more mine inspectors be appointed, I have to inform you that a change was made in the extent of the district known as The Crow's Nest Pass district, sometime previous to the date of the

explosion. This district was very much reduced in size and it is now possible for the District Inspector to visit each mine once every two months and oftener should occasion arise.

With reference to the second rider, that a Draeger apparatus station be provided, I have to inform you that negotiations have been carried on for some considerable time regarding the acquisition of a life-saving apparatus, and I hope that within the next few months a fully equipped mine rescue station will be installed.

With reference to the third rider, that telephones be installed under the supervision of the Chief Inspector of Mines, where practicable in underground workings of coal mines. This had already been done in several mines and will within a short time be done in the underground workings of all the more extensive mines.

I am of the opinion also that there should be more attention paid to see that proper ventilation is carried in to the different parts of the mines, so as to prevent any accumulation whatever of fire-damp. If more substantial stoppings had been built between the main and counter gangways in this time, although this had no bearing on the explosion, there would not have been so much air lost by leakage, and consequently the ventilation would have been more efficient, and there would not be so much danger of the stoppings being destroyed, should a disaster of this nature occur.

In order to prevent as far as possible a recurrence of these explosions, several openings have been driven through to the surface from the abandoned portions of the mine at various points and a good circulation of air kept passing along the higher parts of both the present and abandoned workings. The fan which was acting as a forcing fan and which was situated near the entrance of the mine, has been stopped and another fan has been installed at chute No. 81. This fan, which is used as an exhausting fan, is capable of producing 150,000 cubic feet of air per minute. With these precautions taken, I am of the opinion that it is very unlikely that any further trouble can take place. Should, however, another explosion from any reason whatever take place again in the abandoned workings, very substantial stoppings capable, I believe, of withstanding the shock of any explosion which might occur, have been built. We have also very strongly impressed the management with the necessity of keeping the abandoned portions of the mine thoroughly ventilated so as to prevent any accumulation of gas. It is possible that a fall of roof may occur at any time, and if by any chance there should be any quantity of gas present in the mine, it would be almost certain to be ignited.

Instructions have also been given that all parts of the mine must be examined every day by competent persons and should a cave take place making a pocket where gas could lodge, it would be known and arrangements made to have any gas which might accumulate removed immediately. Instructions have also been given to the company, that should gas by any chance accumulate either in the abandoned or working portions of the mine, the workmen must be immediately withdrawn until it has been cleared away.

Before any further pillars will be allowed to be extracted, a sufficient number of openings are to be made to the surface from the area where these pillars are to be extracted.

EXAMINATIONS

An examination for fire boss certificates was held at Frank on May 31st, at which thirty-nine candidates presented themselves for examination, seventeen of whom passed, and the regular examinations for mine managers, pit bosses and fire bosses were held at Frank, Banff and Edmonton on September 13th, 14th and 15th. At the latter examinations, one hundred and twenty-seven candidates presented themselves for examination, seventy of whom passed, as follows:—Managers: Thirty-nine sat for examination, seventeen passed. Pit Bosses: Forty sat for examination, twenty-three passed. Fire Bosses: Forty-eight sat for examination, and thirty passed.

The number of candidates who presented themselves for examination during the year 1911, shows a considerable increase over the previous year, and with the steadily increasing number of mine officials qualifying each year, there should soon be no difficulty in securing a sufficient number of certificated persons to fill all official positions at the mines.

During the past year, one hundred and twenty-four pit boss provisional certificates were issued and two fire boss provisional certificates issued to different persons until they had an opportunity of obtaining certificates by examination.

The following are the questions set at the examination held at Frank, Banff and Edmonton on September 13th, 14th and 15th, 1911:

MINE MANAGER'S EXAMINATION.

Paper No. 1.

Time allowed, one and a half hours.

Candidates must obtain 70 per cent. of the allotted marks to pass.

COAL MINES ACT.

1. State the provisions of The Coal Mines Act as to—
 - (a) Inspection of workings;
 - (b) Safety lamps;
 - (c) Ventilation. (15)
2. Describe briefly the duties of (a) a Mine Manager, and (b) a Pit Boss, as laid down by The Coal Mines Act. (10)
3. What are the provisions of The Coal Mines Act regarding Check-weighmen? (6)
4. State the rule as to the examination of a mine by the workmen, and say why, in your opinion, this rule is not more generally taken advantage of.
5. What are the provisions of The Coal Mines Act with regard to manholes? Are manholes required on a self-acting incline 90 yards long, on which workmen are forbidden to travel, there being a separate travelling road? (10)
6. What accidents should be reported to the District Inspector of Mines, and to the Minister of Public Works; and what are the provisions as to the reports? (9)
7. State briefly the provisions of the Act with regard to the use and handling of explosives in mines. (14)

8. What annual returns have to be made by the owner, agent or manager? (7)
9. State briefly the provisions of the Act regarding "shafts" and "outlets." (10)
10. State the provisions of the Act with regard to the fencing of—
- (a) Places not in use;
 - (b) Shafts. (11)

MINE MANAGER'S EXAMINATION.

*Paper No. 2.**Time allowed, two and a half hours.*

Candidates must obtain 70 per cent. of the allotted marks to pass.

GASES AND SHOT-FIRING.

1. State what gases are given off as the result of spontaneous combustion, and discuss fully their properties. (11)
2. The quantity of air passing into a mine, measured on the intake, is 115,000 cubic feet per minute, the temperature being 65° F. If the quantity measured on the return of the same air-current is 118,500 cubic feet per minute, and the temperature at this point is 72° F., what per cent. of mine gases is present in the return current as it leaves the mine? (10)
3. Give your opinion as to the propagation of flame in mine explosions and discuss the different methods which are adopted for arresting the same. (9)
4. What is afterdamp, and what would be the composition of the after-damp resulting from an explosion of firedamp containing a large quantity of air; and what would it likely be if the firedamp contained a small quantity of air? (10)
5. Explain (a) the principle features of the safety lamp, (b) the effect of the several illuminants used, and (c) state what principles control or determine the dimensions of safety lamps. (10)
6. (a) State the different kinds of explosives used in mines in the Province. (b) Give your views as to the best kind of explosives adapted to the various conditions. (c) State your views as to the best methods of handling and caring for explosives. (d) State the methods in use for drilling holes for explosives, and what suggestions you would make, if any, for improvement in such methods. (12)
7. The air current in a certain mine is charged with marsh gas to the extent of 3 per cent., when the water gauge reading is 2.5 inches. What would be the percentage of gas in the current if it became necessary to reduce the speed of the fan till the water gauge gave a reading of only 1 inch? (10)
8. Describe the principle and practice of electric blasting. What are the dangers of shot-firing in a dry and dusty mine; and what precautions would you take in performing this work? (11)
9. What do you understand by the term "diffusion of gases" and what instances do you know that appear contrary to that principle? (7)

10. Describe the safety lamp, giving an explanation why it is considered and called a safety lamp. Name the different types of safety lamps with which you are familiar. State which lamp you prefer for the use of a miner, and which for the use of a fire boss, giving reasons. (10)

MINE MANAGER'S EXAMINATION.

Paper No. 3.

Time allowed, three and a half hours.

Candidates must obtain 70 per cent. of the allotted marks to pass.

VENTILATION.

1. What observations and data are required to determine the quantity of air circulating in a mine, and the efficiency of the ventilating appliances? (10)

2. Name the three main qualities of a ventilating fan, and show how, having regard to the thickness of seam and the length of airways, you would determine the type and size of fan to be used. (9)

3. A current of 30,000 cubic feet of air per minute is split into two airways, A and B. Split A is 5 ft. x 8 ft. and 10,000 feet long. If split B is 5 ft. x 7 ft., what length must it be to take one-half the air, no regulators being used? (10)

4. A fan 16 ft. x 8 ft., running at a speed of 100 revolutions per minute, produces 125,000 cubic feet of air under a water gauge of 2 inches, at a certain mine; what would be the required speed of this fan and the water gauge to produce a circulation of 150,000 cubic feet of air per minute in the same mine? (11)

5. State to what extent the air current in a mine can be split keeping in view the efficient ventilation of the working places. What advantages are obtained by splitting air currents over a single continuous current, in ventilating a mine? Compare the advantages and disadvantages of the different means of producing ventilation in mines with respect to their safety, effectiveness and economy. (14)

6. If 15,000 cubic feet of air per minute pass along an airway 6 ft. high by 5 ft. wide and 1,600 feet long; what will the quantity be when the length is increased to 2,500 feet, the pressure remaining the same? (8)

7. What is a water gauge, a barometer, and a hygrometer; and for what purposes are they used in connection with mining? (9)

8. The temperature in a mine being 63 degrees F. the velocity of the air current 345 feet per minute, and the size of the airway 6 ft. 6 ins. by 8 ft. 3 ins., what weight of air is travelling per minute? (9)

9. How would you increase the volume of air in a mine without increasing the power? (6)

10. Make a neat sketch of pillar and room workings for a mine employing 145 men. Show number of workmen in each district, course of ventilation, showing air splits and crossings, stoppings, doors and regulators. Give size of return airway, also quantity of air in each split. (14)

MINE MANAGER'S EXAMINATION.

*Paper No. 4.**Time allowed, four hours.*

Candidates must obtain 60 per cent. of the allotted marks to pass.

PRACTICAL WORK.

1. Describe with sketches the different methods with which you are familiar, of extracting pillars having due regard to the greatest degree of safety to the miners and the recovery of the largest percentage of the coal. (10)

2. Describe some form of coal cutting machine with which you are familiar, and state in what seams they are to be preferred to manual labour, having regard to the thickness of coal, nature of roof and pavement. (9)

3. Describe how you would arrange your men and material for retimbering an engine haulage road without interfering with the traffic on it which occupies eight out of the twenty-four hours. It is 10 feet wide and 6 feet high within the existing timbers. The upright and crown-trees are 2 feet apart and there are to be no trees in the centre of the road. Sketch side and end views, showing how you would place the new timber in relation to the old, and if you would take out the old which is supposed to have some strength left in it. The roof is composed of 5 feet of soft shale up to a 6 feet bed of sandstone. When in your opinion is the proper time to prop such a roof for a haulage road with permanent timber, immediately on being worked or later on? (11)

4. Describe two systems of working coal with which you are acquainted, and state under what circumstances as to thickness of the seam, nature of the coal, and state of the roof and pavement, you would adopt one in preference to the other, always keeping in view the working of the coal in the easiest and cheapest manner, consistent with the safety of the men and the production of the greatest amount of lump coal. (12)

5. What chemical and geological features are there in and adjacent to a coal seam which make it susceptible to spontaneous combustion? (7)

6. Describe the general principles of a breathing apparatus for rescue work in mines and discuss the favourable and unfavourable features of such an invention. (8)

7. A hole $1\frac{1}{2}$ inches in diameter is bored into old workings containing water. The head of water is 66 feet, and length of bore hole is 25 feet. How many gallons of water will be discharged per minute at the orifice? (7)

8. What are the dangers of the presence of coal dust underground and how may they be mitigated? Describe some of the precautions that you would take to guard against accidents therefrom. (12)

9. Describe fully some method by which you would sink a large rectangular shaft through heavily watered quicksand, and state what are the limits, if any, to the use of the method which you describe. (12)

10. Suppose you are opening up a new mine in a flat seam; what would determine the kind and size of fan you would equip your mine with, and whether you would open up with a double or

triple entry system, which would you use for intake, and which for return airway? Where would you place your fan and what precautions would you take to preserve it in case of an explosion?
(12)

MINE MANAGER'S EXAMINATION.

Paper No. 5.

Time allowed, three and a half hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

MACHINERY.

1. Explain what is meant by each of the terms: "Heating Surface," "Steam Room," "Atmospheric Pressure" and "Latent Heat."
(8)

2. Enumerate the different causes of incrustation in a steam boiler. What kind of incrustation does the most harm to a boiler and in what manner may it cause an explosion?
(7)

3. In a slope which is 900 feet in length and has an average pitch of 30 degrees, the quantity of water accumulating is 250,000 gallons per day. Give the size of the pumps and the required speed of the same to remove this water by pumping 8 hours per day?
(10)

4. What thickness should a cast iron pipe 6 inches in diameter be made to have a bursting pressure of 4,000 pounds per square inch?
(6)

5. What size of haulage engine would be required to haul an output of 100 tons per hour up an incline 1,000 yards in length, with a gradient of 1 in 6?
(9)

6. A compound, triple-expansion, three-cylinder engine takes steam from boilers at 192 pounds absolute pressure, and exhausts at 3 pounds absolute; what is the total number of expansions in the steam, and what number of expansions takes place in each cylinder? Give also the cut-off and the relative areas necessary in order to equalize the work of each cylinder.
(10)

7. To what use is electricity applied in the operation of coal mines? What are the advantages and disadvantages of using electricity for power or other purposes? State the conditions under which you would recommend the use of electricity for power in mines. What dangers are attendant on its use and what precautions should be taken to insure safety to those employed in the mine?
(11)

8. What size of rope should be used to hoist 4,000 pounds of coal at one time? The car, cage and rope weighing 3,500 pounds.
(5)

9. Describe fully—

(a) An appliance for the prevention of overwinding in shafts;

(b) An automatic arrangement of cut-off for winding engines.
(8)

10. Describe any form of compound (2 stage) air compressor. When using a large number of drills underground, what precautions would you take and how would you arrange matters so as

to make the most efficient and economical use of the compressed air at your disposal? (9)

11. Describe fully, with sketches—

- (a) How a detaching hook should be connected to the cage;
- (b) Two methods of capping a steel wire rope;
- (c) The precautions to be taken in order to see that a detaching hook is always in a safe and good working order. (10)

12. (a) What is a safe voltage to use in a mine for electric haulage? (b) If the generators are producing a 500-volt current what is necessary to be done to retain the same power but reduce the voltage to 250 volts? (7)

MINE MANAGER'S EXAMINATION.

Paper No. 6.

Time allowed, four hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

LEVELLING.

1. Describe fully the ordinary process of levelling, stating any precautions required to ensure accuracy. (10)

2. Give a page from an imaginary level book, showing at least eight readings obtained by two settings of the instrument. (18)

3. Work out and plot the section which you have given in question 2, to any convenient scale. Mark on the profile the number and elevation of each station. (16)

4. What is the average grade from the point of starting to the finish of the level, in question 2? Show grade by line drawn on profile. (11)

5. Suppose you are required to take levels along an underground roadway in order to plot a section showing both roof and floor, state what instruments you would use and how you would proceed. (11)

6. What are the benefits, present and future, of having the levels of main roads put on colliery plans? (9)

7. How would you proceed to level along an inclined road, which is 3 ft. 9 ins. high and inclined at an angle of 44 degrees? (11)

8. Describe an engineers level and say how you would determine if the instrument is in proper adjustment. (14)

MINE MANAGER'S EXAMINATION.

Paper No. 7.

Time allowed, three and a half hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

SURVEYING AND MAPPING

1. Explain the terms diurnal variation, dip, declination and secular variation of the magnetic needle. (9)

2. What are the requirements of The Coal Mines Act as to working plans for mines? What further information should they afford in addition to what is legally required? (11)

3. Calculate by sines and cosines the bearing and length of the closing line of the following traverse:

Station	Azimuth	Distance
0 to 1.....	31 degs. 28 mins.....	87 feet
1 to 2.....	351 " 35 "	138 "
2 to 3.....	276 " 15 "	168 "
3 to 4.....	149 " 25 "	103 "
4 to 5.....	69 " 15 "	63 "
5 to 6.....	221 " 15 "	137 "
6 to 7.....	111 " 13 "	91 "
7 to 8.....	49 " 40 "	53 "

(12)

4. Plot the traverse given in question 3 on a scale of 50 ft. to 1 inch and draw the closing line from Station 0 to Station 8. (16)

5. Give a general description of the theodolite and explain the method in which you would use it in making an underground survey. (9)

6. Describe the true meridian as compared with the magnetic meridian. How does the adoption of the latter affect plans made from compass observations and added to as in mine plans from year to year? (10)

7. How would you proceed to put up sights in a room, the course of the entry being given as N. 86 deg. E. and the rooms to be turned to the left, and to make with the entry an angle of 72 degrees? (12)

8. In the case of a mine with only one shaft, which is vertical, and where there is iron, which cannot be removed, in every part, explain how to connect the underground with the surface survey. (9)

9. Give sketch and dimensions of a mine car to hold 2,500 pounds of screened coal after there is 42 per cent. of screenings taken out of the car. The coal is to be loaded one foot above the car. The specific gravity of the coal is 1.25. (12)

PIT BOSS EXAMINATION.

Paper No. 1.

Time allowed, one and a half hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

COAL MINES ACT.

1. What are the requirements of The Coal Mines Act, as to the inspection of a mine—

(a) Before commencing work;

(b) During working hours.

(15)

2. What are the Regulations of the "Eight Hour Law" with respect to the limit of hours of work below ground in coal mines? (12)
3. State the Requirements of The Coal Mines Act as to the use and handling of explosives underground. (13)
4. State the Requirements of The Coal Mines Act regarding the following, in connection with shafts—
 - (a) Distance apart and communication roads;
 - (b) Raising and lowering of persons;
 - (c) Fencing. (16)
5. What precautions must be observed to comply with The Coal Mines Act in case of a missed shot? (9)
6. What are the Requirements of The Coal Mines Act, as to Safety Lamps? (12)
7. State fully the Requirements of The Coal Mines Act, with regard to manholes. (11)
8. State fully the duties of (a) a pit boss, and (b) a fire boss, as laid down by The Coal Mines Act. (12)

PIT BOSS EXAMINATION.

*Paper No. 2.**Time allowed, two and a half hours.*

Candidates must obtain 60 per cent. of the allotted marks to pass.

VENTILATION.

1. A blue cap half an inch long is found on the low flame of a safety lamp burning Colza oil. What percentage of fire-damp would you say was present, and what steps would you take if you found this during working hours in—
 - (a) A working place;
 - (b) A hole in the roof of a drawing road;
 - (c) The return airway. (10)
2. Show how you would ventilate the workings on the accompanying plan, having due regard to haulage. The coal being wound at the downcast shaft only. Show by arrows the direction of the air current, putting in the necessary stoppings, doors, brattices, etc. (11)
3. What gases would you expect to find on opening an area that had been sealed for some considerable time owing to the presence of a gob fire. How would you search for them and how would you recognize them? Explain fully. (6)
4. What is the horse-power expended on the ventilation of a mine when the quantity of air passing amounts to 35,000 cubic feet per minute, and the water gauge is .6? (8)
5. Give a description of the construction and principle of action of each of the following instruments: Anemometer, barometer and water-gauge, and state how you would ascertain whether or not the anemometer is in good working order. (10)
6. Explain the actions of the forcing fan and the exhausting fan in producing ventilation. (6)
7. Describe the construction of a safety lamp, and explain the essential points to be noted when it is externally examined before

being taken into the mine. State your views as to the advantages and disadvantages of the different methods of locking and relighting safety lamps, with which you are familiar. (9)

8. What is the rubbing surface of an airway which is 8 feet wide at the top and 9 feet wide at the bottom, 8 feet high and 1,800 feet long? (6)

9. What is a blown-out shot and what is a windy shot? What are the dangers attendant upon firing them in a dry and dusty mine, and what precautions would you take to prevent them? (8)

10. If the water-gauge be .5 inches with a quantity of 24,000 cubic feet of air per minute passing through a mine what would it be with a quantity of 36,000 cubic feet per minute passing through the same mine? (7)

11. Which mine do you consider the most dangerous, one giving off CH₄ with no coal dust present or one free from CH₄ with a considerable amount of coal dust? Give reasons for your answer. (10)

12. Describe how you would erect a regulator in an airway. Under what conditions would you require this and where should it be placed? (9)

PIT BOSS EXAMINATION.

Paper No. 3.

Time allowed, three and a half hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

PRACTICAL WORK

1. Describe fully with sketches, the precautions you would adopt in replacing heavily weighted timber in the main road of a fiery mine. (9)

2. Describe with sketches the operations of sinking and timbering a rectangular shaft through 95 feet of shale. The shaft is to be 17 feet by 9 feet in the clear and divided into three compartments. (11)

3. A seam of coal 3 feet 9 inches thick with soft pavement and moderately hard roof, is lying flat, full of shallow troughs and undulations and makes a lot of water; describe generally how you would work this seam, keeping in view the economical handling of the water. The seam generates a small quantity of CH₄. (12)

4. What are the advantages and disadvantages of earthing electrical machines and cables underground? (6)

5. It is customary in some quarters to refer to certain explosives as flameless and safety explosives; discuss the question generally without reference to any particular explosives. Do you agree with the accuracy of the description? (7)

6. Describe some method of working a seam which is 9 feet thick and pitching at an angle of 50 degrees with hard roof and pavement, and which generates a fairly large amount of fire-damp. What are the features of a seam of coal you would prefer to work by stoop and room rather than by long-wall? (12)

7. What are stratified and unstratified rocks? What is known as to their origin? (5)

8. What is your opinion as to the value of Rescue Apparatus underground? (6)

9. State the dangers attendant upon the use of coal-cutting machines, and how you would overcome the difficulties arising from a bad roof, at the face, along which a long-wall machine is working? (8)

10. Explain the process of firing shots by electricity. (9)

11. In a seam full of joints and intersected by faults, what precautions would you take to guard against accidents from falls of roof at the working face? (7)

12. How would you work a seam which is subject to spontaneous combustion so as to secure the maximum safety? (8)

PIT BOSS EXAMINATION.

Paper No. 4.

Time allowed, four hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

MACHINERY.

1. Describe two arrangements of haulage and say under what conditions they are suitable respectively. (10)

2. Describe the various kinds of flexible and rigid guides for cages in a shaft, and compare their respective advantages and disadvantages. (7)

3. Compare the different contrivances for lessening the jerk and strain in lowering and lifting the cage in deep shafts. (6)

4. What is the breaking strain of a 9-16 inch steel wire hoisting rope, having 6 strands of 19 wires each; give also the safe working load? (8)

5. Describe some form of coal-cutting machine suitable for work in pillar and room workings. (10)

6. Describe briefly with sketches an ordinary bucket or lift pump. (8)

7. What is meant by each of the following terms:

(a) Indicated horse-power;

(b) Lap;

(c) Lead;

(d) Non-condensing engine;

(e) Compound condensing engine? (9)

8. Describe how you would, (a) examine, (b) clean, (c) and grease a steel wire hoisting rope. Mention the parts at which you especially look for defects. What are the objections to using a rag or hempen mark upon a wire rope? (9)

9. State the conditions under which you would recommend the use of electricity for power in mines. Give the advantages and disadvantages of using this power. (8)

10. The diameter of a piston of an engine is 10 inches and the length of stroke 15 inches. It makes 250 revolutions per minute with a mean effective steam pressure of 40 lbs. per square inch. What is the horse-power? (10)

11. Describe briefly the arrangements usually made for taking up slack rope in endless rope haulage. (8)

12. An electric machine works at 150 volts and 25 amperes; what is the horse-power? (7)

PIT BOSS EXAMINATION.

Paper No. 5.

Time allowed, three and one-half hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

SURVEYING AND LEVELLING.

1. Sketch and describe with dimensions, an air crossing over and at right angles to a main haulage road, which is 7 feet high and 10 feet wide. The quantity of air to pass over the crossing is 30,000 cubic feet per minute, and the dip of the mine is 1 in 5. (11)

2. What are the requirements of The Coal Mines Act as to plans of workings? (8)

3. Plot the following survey to a scale of 100 feet to the inch:

<i>Station</i>	<i>Bearing</i>	<i>Distance</i>
1 to 2.....	S 44 degs. 30 mins. E.....	220 feet.
2 to 3.....	S 31 degs. 15 mins. W.....	180 feet.
3 to 4.....	S 65 degs. 00 mins. W.....	210 feet.
4 to 5.....	N 42 degs. 45 mins. W.....	135 feet.
5 to 6.....	N 81 degs. 30 mins. E.....	114 feet.

(13)

4. Give the bearing and length of the closing line from station 5 to station 1 of the survey given in question 3. (9)

5. Describe the ordinary process of levelling underground, noting any precautions required to insure accuracy. (11)

6. What are ordinary sources of error to be avoided in laying down new surveys on old plans? (7)

7. State how you would proceed to make an underground survey with a fast needle and state how you would find the inclination of the seam. (12)

8. What is meant by the term "True Meridian?" Describe a simple method of approximately determining it. (6)

9. Give a short description of the miner's compass and explain the method in which you would use it in making an underground survey with the loose needle. (10)

10. What angle is included between N 83½ degs. E. and S 62 degs. W.? (7)

11. If there is an error of 1 degree in the bearing of an underground road, what will the total error amount to if it be continued for a distance of 1,500 yards? (6)

FIRE BOSS EXAMINATION.

Paper No. 1.

Time allowed, one and a half hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

COAL MINES ACT.

1. State fully the Requirements of The Coal Mines Act regarding the use and handling of explosives in a mine. (14)
2. What are the Requirements of The Coal Mines Act as to—
 - (a) Ventilation; (17)
 - (b) Safety lamps. (17)
3. What are the Requirements of The Coal Mines Act, regarding the supply of timber in a mine? (8)
4. State fully the Provisions of The Coal Mines Act, with respect to the inspection by competent persons of—
 - (a) A mine in which gas has been found; (13)
 - (b) A mine in which gas has not been found. (13)
5. State fully the qualifications and duties as laid down by The Coal Mines Act of—
 - (a) A shot-lighter; (14)
 - (b) A fire-boss. (14)
6. What is the smallest quantity of air you would have passing through a mine, where there are 233 persons employed and six horses at one time? How many splits would you have? (13)
7. What are the Provisions of The Coal Mines Act, regarding signals on underground planes which are self-acting or worked by machinery? (11)
8. What are the Provisions of The Coal Mines Act regarding chains and ropes used for raising and lowering persons? (10)

FIRE BOSS EXAMINATION.
*Paper No. 2.**Time allowed, two and a half hours.*

Candidates must obtain 60 per cent. of the allotted marks to pass.

VENTILATION AND SAFETY LAMPS

1. Describe some form of safety lamp with which you are familiar, and state what kind of oil you would use. (9)
2. Discuss the different methods adopted for locking safety lamps and say which you prefer. (6)
3. Make a neat sketch of a district of a mine with which you are familiar, showing at least two splits. Show by means of arrows the course of ventilation, marking on the positions of all doors, brattices, etc. Give the thickness and inclination of the seam and the number of men employed in the district. (14)
4. What are the systems of ventilation in use in this country, and state the conditions that would make one system more available than others, taking safety and economy into consideration? (8)
5. What quantity of air would be necessary to ventilate a mine in which 330 men were employed? Would this quantity be sufficient under all circumstances? (9)
6. If on making your round of inspection before the men commenced work you found a body of gas in a working place, state fully what you would do. (8)
7. If 35,000 cubic feet of air per minute is passing along an airway 9 ft. wide by 6 ft. high, what is the velocity? (9)

8. A rock tunnel $6\frac{1}{2}$ feet high by 10 feet wide is being driven at an inclination of 1 in 8. It is expected that this tunnel will intersect a coal seam which will probably give off a fairly large amount of fire-damp. State fully what precautions you would take and how you would ventilate the tunnel. The tunnel will reach the coal seam at a distance of 550 feet. (10)

9. If an explosion occurred in a mine during working hours, and the miners could not get out owing to the presence of after-damp, describe in detail what action you would take. (9)

10. Describe the thermometer and water-gauge, and say for what purposes they are used in connection with mining. (10)

11. Describe fully how you would test for fire-damp at the face of a working place, and how you would ascertain what percentage of fire-damp was present. (8)

FIRE BOSS EXAMINATION.

Paper No. 3.

Time allowed, one and a half hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

GASES AND SHOT-FIRING.

1. Name the gases usually met with in coal mines. Give their chemical composition and state how you would detect them. (16)

2. Describe two different methods of shot-firing, suitable for a dry and dusty mine. Discuss the advantages and disadvantages of each method and say which you prefer. (12)

3. What are the causes of blown-out shots and what are the dangers attendant upon them? State what precautions should be adopted to prevent them. (13)

4. Find the number of square feet of rubbing surface in an airway 6 feet high and 7 feet wide and 750 feet long. (12)

5. Sketch and describe some form of stopping you would erect in order to isolate the abandoned workings of a mine from the existing workings. The stopping is to be built in a roadway 8 feet wide by 6 feet high, and must be of sufficient strength to withstand the force of an explosion. (15)

6. Is it possible to have an explosion in a mine when your lamp gives no indication of the presence of fire-damp? If so, how? Explain fully. (10)

7. If a fire breaks out suddenly in the intake airway of a mine a short distance from the downcast shaft, what means would you adopt to secure the safety of the men in the mine? (10)

8. What are the most common causes of ignition of gas in a coal mine, and what steps would you take to prevent them? Are there any precautions you would adopt to insure greater safety to the workmen employed in a mine other than that required by the Regulations of The Coal Mines Act governing ventilation and use of explosives? (12)

FIRE BOSS EXAMINATION.

*Paper No. 4.**Time allowed, two hours.*

Candidates must obtain 50 per cent. of the allotted marks to pass.

PRACTICAL WORK

1. Give your views as to the practical requirements for examination and keeping in order of—

- (a) Ropes;
- (b) Cage links and chains;
- (c) Detaching hooks. (10)

2. Describe with sketches how you would retimber a main haulage road 10 feet wide and 7 feet high, where there is a heavy side pressure with a wet broken roof. Give the dimensions of the timbers you would use and the distance apart you would set them. (12)

3. What weight of coal in short tons will be produced from a level 7 feet high, $9\frac{1}{2}$ feet wide and 1,400 feet long, supposing one ton in the solid occupies a space of $27\frac{1}{2}$ cubic feet? (7)

4. Describe with sketch the principle and action of the forcing pump (10)

5. State in detail the manner in which precautionary bore holes against old drowned out workings should be conducted. State what precautions you would take in re-opening an old mine. (10)

6. Describe the construction and mode of erection of a dam to withstand a high pressure of water. (8)

7. A double track with rails weighing 18 lbs. per yard is to be laid along a roadway 1,500 feet long. What total weight of rails will be required in short tons? (9)

8. Describe a system of working coal with which you are acquainted, giving particulars and thickness of the seam, and a description with dimensions of the timber used. (14)

9. State fully what precautions are necessary to insure the safety of persons on underground haulage roads. (9)

10. State the causes of sudden outbursts of gas in coal mines, and what in your opinion should be done to prevent them. (11)

WAGES.

The scale of wages paid in the Province at the end of the year 1911 shows increases over the wages paid in previous years.

The general wage schedule now being paid for day labour is as follows:

Outside Wages.

Fire bosses.....	\$110.00 to \$115.00 per month
Bottom man.....	\$2.89 per day, 10 hrs.
Slate pickers (boys).....	1.37 " " 10 "
Slate pickers (men).....	2.47 " " 10 "
Car oilers (men).....	2.47 " " 10 "
Car oilers (boys).....	1.65 " " 10 "
Tally boys.....	1.37 " " 10 "
Teamsters	2.89 " " 10 "

Blacksmith	\$3.85	per day,	10	hrs.
Blacksmith's helpers	2.90	" "	10	"
Power-house engineers	3.85	" "	12	"
Power-house engineers	3.40	" "	8	"
Fan-men	2.90	" "	12	"
Hoisting engineers	3.20	" "	8	"
Hoisting engineers	3.78	" "	10	"
Hoisting engineers	4.40	" "	12	"
Tail rope engineers	3.63	" "	8	"
Tail rope engineers	3.85	" "	10	"
Endless rope engineers	3.30	" "	10	"
Box-car loader engineer	3.40	" "	10	"
Tipple engineer	3.40	" "	10	"
Screen engine tender	2.65	" "	10	"
Locomotive engineer	3.40	" "	10	"
Locomotive switchman	3.00	" "	10	"
Fireman	2.89	" "	8	"
Fireman	3.85	" "	12	"
Fireman's helper	2.65	" "	10	"
Railway-car helper	2.60	" "	10	"
Tipple dumper (man)	2.89	" "	10	"
Tipple dumper's helpers	2.64	" "	10	"
Tipple dumper (boy)	1.65	" "	10	"
Top cagers	2.64	" "	10	"
Car repairer	3.40	" "	10	"
Car repairer's helper	2.90	" "	10	"
Breaker engineer	3.40	" "	10	"
Fan fireman	3.40	" "	12	"
Lampman (depending upon number of lamps and skill of man)	\$2.47 to	2.89	" "	8
Lampman (depending upon number of lamps and skill of man)	\$2.47 to	3.40	" "	12
Machinists	\$3.40 to	3.85	" "	10
Machinists' helper	2.90	" "	10	"
Ashman	2.50	" "	10	"
Ashman	2.89	" "	12	"
Wiper (man)	2.89	" "	12	"
Coupler (man)	2.47	" "	10	"
Coupler (boy)	1.65	" "	10	"
Breaker oiler	2.89	" "	11	"
Washer or tipple oiler	2.89	" "	11	"
Breaker picker boss	2.89	" "	10	"
Timber framer	3.40	" "	10	"
Timber sawyer	2.64	" "	10	"
Box-car shoveler	2.89	" "	10	"
Breaker platform boss	2.89	" "	10	"
Breaker platform men	2.60	" "	10	"
Breaker screen men	2.47	" "	10	"
Rock bank men	2.47	" "	10	"
Dirt bank men	2.47	" "	10	"
Finisher after box-car loader	2.47	" "	10	"
All other outdoor labour	2.47	" "	10	"

Bee Hive Coke Ovens.

Levelling and drawing (6 1-2 ton charge), per oven	\$1.00
Levelling and drawing (5 ton charge), per oven	.80
Loading into box or open cars (over 200 tons per month) per ton	.17
Loading into box or open cars (less than 200 tons per month), per ton	.16
Steam locomotive engineer	\$3.40 per day, 10 hrs.
Motorman	3.18 " " 10 "
Larryman	2.47 " " 10 "
Plasterers	2.47 " " 10 "
Carters and cleaners	2.47 " " 10 "
All other labour	2.47 " " 10 "

Belgian Coke Ovens.

Ram engine man.....	\$3.40	per day, 10 hrs.
Chargers	2.89	" " 10 "
Clayers	2.89	" " 10 "
Drawers	2.89	" " 10 "
Loaders	2.60	" " 10 "

Briquette Plant.

Engineer	\$3 86	per day, 12 hrs.
Briquetter	3 97	" " 12 "
Briquetter's helper.....	3.40	" " 12 "
Tar Melter.....	2.89	" " 12 "
Labourers	2.89	" " 12 "

Inside Wages.

Spotlighter	\$3.30	per day, 8 hrs.
Bratticemen	3.30	" " 8 "
Bratticeman's helper.....	2 75	" " 8 "
Timberman	3.30	" " 8 "
Timberman's helper.....	2.75	" " 8 "
Tracklayers	3.30	" " 8 "
Tracklayer's helper	2.75	" " 8 "
Motorman	3.05	" " 8 "
Motorman's helper.....	2.75	" " 8 "
Locomotive engineer.....	3.05	" " 8 "
Locomotive switchman.....	2 75	" " 8 "
Drivers	3.03	" " 8 "
Drivers (wet places).....	3.30	" " 8 "
Drivers (spike team).....	3.50	" " 8 "
Couplers (men).....	2.75	" " 8 "
Couplers (boys).....	1.65	" " 8 "
Switch boys.....	\$1.37 to 1.65	" " 8 "
Door boys.....	1.10	" " 8 "
Rope riders.....	3.03	" " 8 "
Main and tail rope riders.....	3.30	" " 8 "
Pushers	2.75	" " 8 "
Buckers	2.75	" " 8 "
Loaders	2.75	" " 8 "
Miners	3 30	" " 8 "
Miners (wet places).....	3 75	" " 8 "
Rock miners.....	3.75	" " 8 "
Timber handlers.....	3.03	" " 8 "
Labourers	2.75	" " 8 "
Cagers, slope and incline.....	2.75	" " 8 "
Cagers, shaft.....	3.30	" " 8 "
Machinemen	3.75	" " 8 "
Machinemen's helper.....	3.30	" " 8 "
Pumpmen	2.75	" " 8 "
Pumpmen (A. R. & I. Co.).....	3.20	" " 8 "
Hoistmen	\$3.03 to 3.30	" " 8 "
Drivers (boys).....	\$1.65 to 2.75	" " 8 "
Grippers	2.75	" " 8 "
Grippers (boys).....	\$1.65 to 2.75	" " 8 "
Pipe fitter's helpers.....	2.75	" " 8 "
Pick carriers.....	\$1.37 to 2.75	" " 8 "
Clutchmen	3.30	" " 8 "
Rollermen	2.75	" " 8 "
Miners on contract average from \$3.50 to \$6.00 per day of eight hours.		

With the number of railways which are now being built and also those that are projected in all parts of the Province, the future of the coal trade for both steam and domestic coal can now be looked forward to with confidence, and although the output is increasing rapidly, the market appears to be increasing as rapidly.

These new railways are not only the means of bringing new settlers into the Province, but are also the means of allowing coal to be transported to those districts where before it could not be obtained.

I have the honour to be, Sir,

Your obedient servant,

JOHN T. STIRLING,
Provincial Inspector of Mines.

LOCAL IMPROVEMENT BRANCH

EDMONTON, Alberta, March 26th, 1912.

JOHN STOCKS, ESQ.,
Deputy Minister of Public Works,
Edmonton.

SIR,—I beg to submit herewith the following report for the Local Improvement Branch of the Department of Public Works for the year 1911.

As has been the case in previous years, the work of the branch steadily increased during the past year, but this increase of work was more in connection with the organization and assistance of small local improvement districts and villages, and in the assistance given to school districts, than in connection with the assessments we levied under the Local Improvement Act and Educational Tax Act. The total amount of taxes and fees collected under the Local Improvement Act and Educational Tax Act, together with arrears collected from small local improvement districts, school districts and villages, amounted to \$292,518.58, being \$20,000.00 in excess of previous years' collections.

There has been a great increase in the number of tax certificates we have been asked for during the past year, and it has been necessary to employ more help on this work.

No forfeiture proceedings were taken during the year 1911.

LARGE LOCAL IMPROVEMENT DISTRICTS

The total assessment levied in large local improvement districts in the year 1911 amounted to \$171,461.64, as compared with a total assessment of \$204,070.96 in the year 1910; the difference being a result of the increased organization of small local improvement districts during the past year. The total amount collected from large local improvement districts in the year 1911 amounted to \$118,515.16.

Practically our only difficulty in connection with the local improvement assessment is the obtaining of reliable information as to the post office addresses of ratepayers. Lands held under patent are continually changing hands under agreements of sale which are not registered in any way, and therefore it is frequently very difficult to reach the owner of the land with Assessment Notice.

We have also great difficulty in reaching homesteaders on account of the fact that many of these are absent from their homesteads for quite a long period in each year, and the notice sent to the post office nearest their homestead is returned marked "not called for." The continual establishment of new mail routes and new post offices in the newer portions of the Province also add to our difficulty in reaching homesteaders with their assessment notices. Where notices to homesteaders are returned, we are in a great many cases issuing second notices to the next post office to the land assessed, and thus overcome as much as possible the fact that the homesteaders have no registered post office address in the same way as owners of land under title.

SMALL LOCAL IMPROVEMENT DISTRICTS.

There were two hundred and twenty-seven small local improvement districts fully organized and carrying on business in the Province at the end of the year 1911; twenty-three new districts having been organized during the year, as well as additions being made to district 27-D-4 of the area lying to the north of that district and south of the river. Townships 55 and 56 in Range 4, West of the 5th Meridian, were also added to district 28-A-5.

The work of auditing the books of small local improvement districts was carried on as usual by our auditors, and I am glad to be able to report that on the whole the districts have made great advancement during the past year in their methods of carrying on business.

Arrears of taxes in small local improvement districts to the amount of \$35,166.31 were collected during the year and forwarded to the districts to which they belonged.

In some districts there is still a tendency for a councillor to act as if he had nothing whatever to do with the work in the district except the work that is carried on in the division which he represents. The Act provides, however, that all the work of the district is under control of the council of the district as a whole, and better results are obtained where the work is dealt with by the council of the district as a whole.

The following is a complete list of all small local improvement districts in existence at the end of the year 1911 together with the date of organization, the area of each district, the name of the secretary-treasurer and the rate of assessment which was levied in the past year:

9-A-4—Organized 1911.—Townships 17 and 18 in ranges 1 and 2, west of the fourth meridian. Secretary-treasurer, Geo. Neumiller, Hilda, Alberta. Rate of assessment 1911, \$4.00 per quarter section.

14-A-4—Organized 1911.—Townships 27 and 28 in ranges 1 and 2, west of the fourth meridian. Secretary-treasurer, N. E. Eby, Alsask, Sask. Rate of assessment, \$5.00 per quarter section.

19-A-4—Organized 1910.—Townships 37 and 38 in ranges 1 and 2, west of the fourth meridian. Secretary-treasurer, F. C. Schneider, Rosenheim, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

20-A-4—Organized 1910.—Townships 39 and 40 in ranges 1 and 2, west of the fourth meridian. Secretary-treasurer, J. G. McKay, Provost, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-A-4—Organized 1908.—Townships 47 and 48 in ranges 1 and 2, west of the fourth meridian. Secretary-treasurer, Jno. G. Barclay, Rising Sun, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-A-4—Organized 1906.—Townships 49 and 50 in ranges 1 and 2, west

of the fourth meridian. Secretary-treasurer, Wm. Swarbrick, Lloydminster, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-A-4—Organized 1906.—Townships 51 and 52 in ranges 1 and 2, and township 53 in range 2, west of the fourth meridian. Secretary-treasurer, H. C. Rawle, Lloydminster, Alberta. Rate of assessment 1911, \$6.00 per quarter section.

5-B-4—Organized 1905.—Townships 9 and 10 in ranges 2, 3 and 4, west of the fourth meridian. Secretary-treasurer, Fred J. Bohnet, Little Plume, Alberta. Rate of assessment 1910, \$2.80 per quarter section.

6-B-4—Organized 1906.—Townships 11 and 12 in ranges 4 and 5, west of the fourth meridian. Secretary-treasurer, G. Jenkins, Medicine Hat, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

20-B-4—Organized 1909.—Townships 39 and 40 in ranges 3 and 4, west of the fourth meridian. Secretary-treasurer, A. P. Holmquist, Cadogan, Alberta. Rate of assessment 1910, \$3.20 per quarter section.

25-B-4—Organized 1911.—Townships 48 and 49 in ranges 3 and 4, west of the fourth meridian. Secretary-treasurer T. Bruce McKay, Kitscoty, Alberta. Rate of assessment, \$8.00 per quarter section.

26-B-4—Organized 1905.—Townships 50, 51 and 52 in ranges 3 and 4, west of the fourth meridian. Secretary-treasurer, W. Ashworth, Kitscoty, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-B-4—Organized 1907.—Township 53 in ranges 3 and 4, township 54 in range 4; south of river of township 54 in range 3, west of the fourth meridian. Secretary-treasurer, R. F. Blair, Dewberry, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

5-C-4—Organized 1911.—Townships 9 and 10 in ranges 5 and 6, west of the fourth meridian. Secretary-treasurer, Donald Cameron, Rosebeg, Alberta. Rate of assessment, \$2.00 per quarter section.

23-C-4—Organized 1909.—Townships 43 and 44 in range 5, portion of township 43, range 6, not included in Buffalo Park, township 44 in range 6 and part of 44, range 7, not included in Buffalo Park, west of the fourth meridian. Secretary-treasurer, Arthur Martin, Wainwright, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-C-4—Organized 1909.—Township 45 in ranges 5 and 6; pt. south and east of river township 45 in ranges 7 and 8; parts south and east of river of township 46, ranges 6 and 7; townships 46 and 47 in range 5; township 47, range 6, west of the fourth meridian. Secretary-treasurer, D. W. Hanson, Wainwright, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-C-4—Organized 1908.—Portion north of Battle River of townships 47 and 48 in range 5; portion north of Battle River of townships 46 and 47, range 6; townships 48 and 49, range 6; township 49, range 5, west of the fourth meridian. Secretary-treasurer, B. Wilson, Cummings, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

26-C-4—Organized 1906.—Townships 50, 51 and 52 in ranges 5 and 6, west of the fourth meridian. Secretary-treasurer, E. Covey, Vermilion, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-C-4—Organized 1909.—Townships 53 and 54 in ranges 5 and 6, west of the fourth meridian. Secretary-treasurer, F. Lawes, Wellsdale, via Islay, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

28-C-4—Organized 1910.—Sections 1 to 30 in township 55, range 5, all of township 55 in range 6, portions south of river of townships 56 in ranges 5 and 6, and sections 31 to 36 in township 55, range 5, west of the fourth meridian. Secretary-treasurer, C. V. Larson, Landonville, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

16-D-4—Organized 1911.—Townships 31 and 32 in ranges 7 and 8, west of the fourth meridian. Secretary-treasurer, R. Clarke Fraser, Wiste, Alberta. Rate of assessment, \$4.00 per quarter section.

17-D-4—Organized 1911.—Townships 33 and 34 in ranges 7 and 8, west of the fourth meridian. Secretary-treasurer, A. C. Brown, Wiste, Alberta. Rate of assessment, \$4.00 per quarter section.

21-D-4—Organized 1909.—Townships 41 and 42, range 8; portion south and east of river of township 41 in ranges 9 and 10; portion south and east of river of township 42 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, S. W. Oxford, Hardisty, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-D-4—Organized 1909.—Portion north of river of townships 45 and 46 in range 7; portion north of river of township 45, range 8; township 46, range 8, west of the fourth meridian. Secretary-treasurer, Sidney Miles,

Irma, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-D-4—Organized 1908.—Townships 47 and 48 in ranges 7 and 8, west of the fourth meridian. Secretary-treasurer, Harry A. Sproule, Orbindale, Alberta. Rate of assessment 1910 \$8.00 per quarter section.

25-D-4—Organized 1907.—Townships 49 and 50 in ranges 7 and 8, west of the fourth meridian. Secretary-treasurer, J. A. McCallum, Mannville, Alberta. Rate of assessment 1910. \$8.00 per quarter section.

26-D-4—Organized 1906.—Townships 51 and 52, ranges 7 and 8, west of the fourth meridian. Secretary-treasurer, G. M. Cundal, Mannville, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-D-4—Organized 1910.—Townships 53 and 54 in ranges 7 and 8, west of the fourth meridian. Secretary-treasurer, Keith A. Maughan, Maughan, Alberta. Rate of assessment 1910, \$6.40 per quarter section.

6-E-4—Organized 1911.—Townships 11 and 12 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, J. W. Hodgson, Winnifred, Alberta. Rate of assessment, \$2.40 per quarter section.

18-E-4—Organized 1911.—Townships 35 and 36 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, R. G. Metcalf, Sounding Creek, Alberta. Rate of assessment, \$4.00 per quarter section.

19-E-4—Organized 1907.—Townships 37 and 38 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, R. W. Preston, Talbot, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

20-E-4—Organized 1907.—Township 39 in ranges 9 and 10, and part east of the river of township 40 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, W. Learmonth, Puffer, Alberta. Rate of assessment 1910, \$6.40 per quarter section.

21-E-4—Organized 1909.—Part north and west of the Battle River of township 40, range 9; part north and west of Battle River of townships 39 and 40, range 10; part west of Battle River of township 41 in ranges 9 and 10; sections 1, 2, 11, 12, 13, 14, 23, 24, 25, 26 35 and 36 in township 41 range 11; part west of Battle River of township 42, in ranges 9 and 10; sections 1, 2, 11, 12, 13, 14, 23, 24, 25, 26 35 and 36 in township 42 range 11, west of the fourth meridian. Secretary-treasurer, D. Williamson, Hardisty, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-E-4—Organized 1910.—Townships 45 and 46 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, J. W. Wyatt, Jarrow, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-E-4—Organized 1907.—Townships 49 and 50 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, Jas. N. Bryden, Mannville, Alberta. Rate of assessment 1910, \$5.60 per quarter section.

26-E-4—Organized 1906.—Townships 51 and 52 in ranges 9, 10 and 11, west of the fourth meridian. Secretary-treasurer, Wm. East, Innisfail, Alberta. Rate of assessment 1910, \$5.60 per quarter section.

27-E-4—Organized 1909.—Townships 53 and 54 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, W. Romanink, Myrnam, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

30-E-4—Organized 1910.—Townships 59 and 60 in ranges 9 and 10, west of the fourth meridian. Secretary-treasurer, Albert Adam, Lac St. Vincent, Alberta. Rate of assessment 1910, \$2.00 per quarter section.

11-H-4—Organized 1911.—Township 21 in ranges 11 and 12, north of river; township 22 in range 12, north of river; townships 22 and 23 in range 11, and township 23 in range 12, west of the fourth meridian. Secretary-treasurer, J. G. Vosburgh, Steeveville, Alta. Rate of assessment, \$2.40 per quarter section.

16-H-4—Organized 1911.—Townships 31 and 32 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, J. A. Maud, Richdale, Alberta. Rate of assessment, \$3.00 per quarter section.

18-H-4—Organized 1911.—Townships 35 and 36 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, Clarence C. Wager, Haneyville, Alberta. Rate of assessment \$8.00 per quarter section.

19-H-4—Organized 1907.—Townships 37 and 38 in ranges 11 and 12 and part south of the river of township 39 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, J. K. Kelly, Lidsville, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-H-4—Organized 1907.—Part north of Battle River of township 39 in ranges 11 and 12, township 40 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, L. K. Cranmer, Flagstaff, Alberta. Rate of assessment 1910, \$6.40 per quarter section.

21-H-4—Organized 1907.—Sections 3 to 10 inclusive, 15 to 22 inclusive, and 27 to 34 inclusive in township 41, range 11; townships 41 and 42 in

range 12; sections 3 to 10 inclusive, 15 to 22 inclusive, and 27 to 34 inclusive in township 42, range 11, west of the fourth meridian. Secretary-treasurer, J. Morrison, Bellshill, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-H-4—Organized 1906.—Townships 43 and 44 in ranges 10, 11 and 12, west of the fourth meridian. Secretary-treasurer, Miss M. Burke, Loughheed, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-H-4—Organized 1910.—Townships 45 and 46 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, L. W. Taverner, Sedgewick. Rate of assessment 1910, \$7.20 per quarter section.

24-H-4—Organized 1905.—Townships 47 and 48 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, D. T. Greene, Viking, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-H-4—Organized 1905.—Townships 49 and 50 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, Geo. R. Cross, Ranfurly, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-H-4—Organized 1909.—Townships 53 and 54 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, Mike Somyn, Lanuke, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

28-H-4—Organized 1909.—Portion south of Saskatchewan River of township 55 in ranges 11 and 12; part north and east of Saskatchewan River in townships 55 and 56 in range 12; part north of Saskatchewan River in township 55, range 11; township 56, range 11, part not in Indian Reserve of township 57, range 11, west of the fourth meridian. Secretary-treasurer, P. St. Hilaire, Duvernay, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

14-J-4—Organized 1911.—Townships 27 and 28 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, J. A. Rodd, Rose Lynn, Alberta. Rate of assessment, \$3.20 per quarter section.

15-J-4—Organized 1910.—Townships 29 and 30 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, Ernest Moore, Copeville, Alberta. Rate of assessment 1910, \$4.80 per quarter section.

18-J-4—Organized 1910.—Townships 35 and 36 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, C. N. Hughes, Castor, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

19-J-4—Organized 1907.—Townships 47 and 48 in ranges 11 and 12, west of the fourth meridian. Secretary-treasurer, Jno. J. G. Marshall, Castor, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-J-4—Organized 1907.—Parts south of the river of townships 39 and 40 in range 13, and township 39 in range 14; part south of river of township 40 in range 14, west of the fourth meridian. Secretary-treasurer, G. L. Rutherford, Ingleton, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-J-4—Organized 1907.—Part north of river of townships 39 and 40 in range 13; part north of river of townships 40 and 41, range 14; townships 41 and 42 in range 13; township 42 in range 14, west of the fourth meridian. Secretary-treasurer, W. H. Stewart, Merna, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-J-4—Organized 1906.—Townships 43 and 44 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, E. H. Malcolm, Killam, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-J-4—Organized 1906.—Townships 45 and 46 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, W. W. L. Ruzicka, Prague, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-J-4—Organized 1906.—Townships 47 and 48 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, C. W. Councilman, Viking, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-J-4—Organized 1905.—Townships 49 and 50 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, Peter Saddaby, Lavoy, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-J-4—Organized 1905.—Townships 51 and 52 in ranges 12, 13 and 14, west of the fourth meridian. Secretary-treasurer, Austin McCloud, Lavoy, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-J-4—Organized 1905.—Townships 53 and 54 in ranges 13 and 14, west of the fourth meridian. Secretary-treasurer, E. H. Wynn-McKenzie, Warwick, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

28-J-4—Organized 1905.—Township 57, range 12; part south and west of the river of township 56, range 12; townships 55 and 56 in range 13; part south of river of township 57 in range 13; townships 55 and 56 in range 14; part south of river of township 57 in range 14, west of the fourth

meridian. Secretary-treasurer, C. T. McGowan, Hairy Hill, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

15-M-4—Organized 1911.—Townships 29 and 30 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, Frank Tadman, Hand Hills, Alberta. Rate of assessment, \$3.20 per quarter section.

16-M-4—Organized 1911.—Townships 31 and 32 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, E. H. Howard, Dowling Lake, Alta. Rate of assessment, \$1.00 per quarter section.

19-M-4—Organized 1906.—Townships 37 and 38 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, A. R. Newsham, Halkirk, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-M-4—Organized 1906.—Township 39 in ranges 15 and 16, parts south of the river of townships 40 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, W. H. Rammel, Halkirk, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-M-4—Organized 1905.—Part north of the river of township 40, range 15; townships 41 and 42 in range 15; parts north and east of river in township 41, range 16; all township 41 in range 17; all township 42 in range 16; and parts east of the river of township 42 in range 17, west of the fourth meridian. Secretary-treasurer, A. V. Pickett, Hastings Coulee, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-M-4—Organized 1904.—Townships 43 and 44 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, F. R. Bowlby, Spring Lake, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-M-4—Organized 1906.—Townships 45 and 46 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, E. H. Dawson, Daysland, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-M-4—Organized 1906.—Townships 47 and 48 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, Austin, Droney, Scona, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-M-4—Organized 1904.—Townships 49 and 50 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, S. J. Langum, Martins, Alberta. Rate of assessment, 1910, \$8.00 per quarter section.

26-M-4—Organized 1904.—Townships 51 and 52 in ranges 15 and 16; part east of B. Lake of townships 51 and 52 in range 17, west of the fourth meridian. Secretary-treasurer, Henry Trenhaile, Vegreville, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-M-4—Organized 1904.—Townships 53 and 54 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, N. McIntyre, Vegreville, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

28-M-4—Organized 1904.—Townships 55 and 56 in ranges 15 and 16, west of the fourth meridian. Secretary-treasurer, Thos. Hall, Whitford, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

29-M-4—Organized 1904.—Parts south and west of the river of townships 57 and 58 in range 15, township 57, range 16; part south and west of the river of township 58, range 16, west of the fourth meridian. Secretary-treasurer, Elias Ganicz, Hunka, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

30-M-4—Organized 1906.—Parts north of river of township 57 in ranges 14 and 15; township 58, range 14; part north of river of township 58, range 15; township 59 in ranges 14 and 15, west of the fourth meridian. Secretary-treasurer, Wm. Hawreliak, Shandro, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

15-N-4—Organized 1910.—Townships 29 and 30 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, A. M. Dunn, Delia, Alberta. Rate of assessment 1910, \$4.80 per quarter section.

16-N-4—Organized 1911.—Townships 31 and 32 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, W. L. Bickell, Victor, Alberta. Rate of assessment, \$4.00 per quarter section.

18-N-4—Organized 1911.—Townships 35 and 36 in ranges 18 and 19, west of the fourth meridian. Secretary-treasurer, Jno. M. Ragan, Gopher Head, Alberta. Rate of assessment, none levied.

19-N-4—Organized 1907.—Townships 37 and 38 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, J. Skocdopole, Botha, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-N-4—Organized 1904.—Townships 39 and 40 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, D. B. Sullivan, Red Willow, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-N-4—Organized 1905.—Portions south and west of river of township 41 in ranges 16 and 17; townships 41 and 42 in range 18; portion south and

west of river of township 42, range 17; portion south of river of township 43, ranges 17 and 18, and portion south of river of township 44, range 18, west of the fourth meridian. Secretary-treasurer, O. F. Broughton, Eidsvold, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-N-4—Organized 1904.—Township 44, range 17; part north of river of township 43 in ranges 17 and 18; portion north of river of township 44 in range 18, and portion north of river and lake of township 44 in range 19, west of the fourth meridian. Secretary-treasurer, Geo. W. Sawyer, Ferry Point, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-N-4—Organized 1905.—Townships 45 and 46 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, O. E. Olesberg, Bawlf, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-N-4—Organized 1905.—Townships 47 and 48 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, Peter Iverson, Bawlf, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-N-4—Organized 1905.—Townships 49 and 50 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer, L. Anderson, Ryley, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-N-4—Organized 1906.—Townships 51 and 52 in ranges 18 and 19, and township 51 in range 20, west of the fourth meridian. Secretary-treasurer, A. J. H. McCauley, Tofield, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-N-4—Organized 1906.—Townships 53 and 54 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, Herman A. Schole, Chipman, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

28-N-4—Organized 1904.—Townships 55 and 56 in ranges 17 and 18, west of the fourth meridian. Secretary-treasurer, Theo. Memirsky, Wostok, Alberta. Rate of assessment, 1910, \$6.00 per quarter section.

29-N-4—Organized 1901.—Township 57 in ranges 17 and 18; parts south of the river of township 58 in range 18, south of river of township 58 in range 17; all township 57, range 19; south of the river of township 57, range 20, and township 58, range 19, and the part east of the river to township 58, range 20, west of the fourth meridian. Secretary-treasurer, Jno. Kosure, Leeshore, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

30-N-4—Organized 1905.—Part north of the river of township 58 in ranges 16 and 17; part south of river of township 58 in range 17; all township 58 in range 18 and all township 59 in ranges 16, 17 and 18, west of the fourth meridian. Secretary-treasurer, G. G. Weekes, Pakan, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

8-P-4—Organized 1910.—Townships 15, 16 and 17 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, Bert Duffy, Brunetta, Alberta. Rate of assessment 1910 \$2 00 per quarter section.

15-P-4—Organized 1910.—Portions north and east of river of township 29 in ranges 19, 20 and 21, portions north and east of river of township 30 in range 21, west of the fourth meridian, and townships 30 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, W. S. Turner, Fox Coulee, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

16-P-4—Organized 1911.—Townships 31 and 32 in ranges 19 and 20, and east of river of townships 31 and 32 in range 21, west of the fourth meridian. Secretary-treasurer, Jno. Macdonald, Morrin, Alberta. Rate of assessment, \$5.20 per quarter section.

19-P-4—Organized 1907.—Townships 37 and 38 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, J. H. Bradley, Lowden Lake, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-P-4—Organized 1906.—Townships 39 and 40 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, L. B. Fisher, Stettler, Alberta. Rate of assessment 1910, \$8 00 per quarter section.

21-P-4—Organized 1906.—Townships 41 and 42 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, Geo. A. Wells, Whitebrush, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-P-4—Organized 1904.—Township 43 in ranges 19 and 20; part west of the river of township 44 in range 19 and all township 44 in range 20, west of the fourth meridian. Secretary-treasurer, W. F. Wendt, Edberg, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-P-4—Organized 1904.—Townships 45 and 46 in range 19, parts north and east of river of township 45 in range 20, river lots 21, 22, 23 and 24, sections 13, 24, 25 and 36 in township 46, range 21, and all township 46 in range 20, west of the fourth meridian. Secretary-treasurer, A. W. Flem-

ming, Ochaton, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-P-4—Organized 1904.—Townships 47 and 48 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, E. L. Scotvold, Camrose, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-P-4—Organized 1904.—Townships 49 and 50 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, Wm. Thomson, Tofield, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-P-4—Organized 1905.—Townships 53 and 54 in ranges 19 and 20, west of the fourth meridian. Secretary-treasurer, W. H. Mair, Chipman, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

28-P-4—Organized 1904.—Townships 55 and 56 in ranges 19 and 20, east of the river of township 55 in ranges 21 and 22, and east of the river of township 56 in range 21, west of the fourth meridian. Secretary-treasurer, A. A. Dickson, Bruderheim, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

29-P-4—Organized 1908.—Parts north of the river of townships 57 and 58 in range 20, all township 59 in ranges 19 and 20, and part north of the river of township 58 in range 19, west of the fourth meridian. Secretary-treasurer, J. B. Hall, Pine Creek, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

8-R-4—Organized 1910.—Townships 15 and 16 in ranges 21 and 22, west of the fourth meridian. Secretary-treasurer, A. C. Galbraith, Brunetta, Alberta. Rate of assessment 1910, \$2.00 per quarter section.

9-R-4—Organized 1909.—Townships 17 and 18, in ranges 21 and 22, west of the fourth meridian. Secretary-treasurer, T. A. Bryant, Queenstown, Alberta. Rate of assessment 1910, \$2.00 per quarter section.

18-R-4—Organized 1907.—Part west of river of township 35, range 21; all townships 35, range 22; part west of river of township 36, range 22, west of the fourth meridian. Secretary-treasurer, Hugh Ramsey, Trenville, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

19-R-4—Organized 1909.—Sections 1 to 24 inclusive in township 37, range 21; portion east of the river of sections 1, 12, 13, 23 and 24 of township 37, range 22; sections 25 to 35 inclusive in township 37, range 22; sections 25, 35, 36 and portion east of river of sections 26, 27 and 34 in township 37, range 22, west of the fourth meridian; sections 1 to 12 inclusive in township 38, range 21; sections 1 and 2 and portion east of river of sections 3 and 10 and sections 11 and 12 in township 38, range 22; sections 13 to 36 inclusive in township 38, range 21; sections 13, 14 and portion east of river of sections 15, 21, 22 and sections 23, 24, 25 and 26, portion east of river of sections 27, 28, 33, 34, sections 35 and 36 in township 38, range 22, west of the fourth meridian. Secretary-treasurer, K. J. Lincoln, Erskine, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-R-4—Organized 1905.—Townships 39 and 40 in ranges 21 and 22, west of the fourth meridian. Secretary-treasurer, S. W. Smith, Content, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-R-4—Organized 1904.—Townships 41 and 42 in ranges 21 and 22, west of the fourth meridian. Secretary-treasurer, N. A. Donaldson, Manfred, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-R-4—Organized 1904.—Townships 43 and 44 in ranges 21 and 22, and part not in Indian Reserve of township 44 in range 23, west of the fourth meridian. Secretary-treasurer, Jens A. Johnson, Highland Park, Alberta. Rate of assessment 1910 \$8.00 per quarter section.

23-R-4—Organized 1904.—Parts south and west of river of township 45 in range 19, and parts south of river of townships 45 and 46 in range 20; all township 45, range 21; south of river of township 46 in ranges 21 and 22; parts south and east of river of township 45 in ranges 22 and 23, west of the fourth meridian. Secretary-treasurer, A. E. Trussler, Rosenroll, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-R-4—Organized 1904.—Townships 47 and 48 in ranges 21 and 22; part east of lake of townships 47 and 48 in range 23; all except river lots 21, 22, 23, 24, and sections 13, 24, 25 and 36 in township 46, range 21; all township 46, range 22, north of the river, west of the fourth meridian. Secretary-treasurer, E. C. Roper, Bittern Lake, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-R-4—Organized 1906.—Townships 49 and 50 in ranges 21 and 22, west of the fourth meridian. Secretary-treasurer, Jonas Smith, New Sarapta, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-R-4—Organized 1906.—Township 51 in ranges 21 and 22, sections 1 to 30 in township 52, range 22, and sections 1 to 30 in township 52, range

21, west of the fourth meridian. Secretary-treasurer, M. H. Kephardt, Cooking Lake, Alberta. Rate of assessment 1910 \$8.00 per quarter section.

27-R-4—Organized 1904.—Sections 31 to 36 in township 52, range 21; townships 53 and 54 in range 21; sections 31 to 36 in township 52, range 22; all township 53 in range 22; east of river of township 54 in range 22; south and east of river of township 53, range 23; south and east of river of township 54, range 23; south of river in township 53, range 24, west of the fourth meridian. Secretary-treasurer, T. H. Attewell, Agricola, Alberta. Rate of assessment 1910, \$7.40 per quarter section.

28-R-4—Organized 1904.—Parts north and west of river of township 56 in range 21; all township 56, range 22; west of river of township 55, range 22, and all townships 55 and 56 in range 23, west of the fourth meridian. Secretary Treasurer, Wm. Mason, Bon Accord, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

29-R-4—Organized 1907.—Townships 57 and 58 in ranges 22 and 23, and townships 57 and 58 in range 21, west of the fourth meridian. Secretary-treasurer, Wm. Mason, Bon Accord, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

33-R-4—Organized 1911.—Townships 65 and 66 in ranges 21 and 22, west of the fourth meridian. Secretary-treasurer, Wm. Rennison, Athabasca Landing, Alberta. Rate of assessment \$8.00 per quarter section.

6-S-4—Organized 1906.—Parts north of the river of township 10 in range 24, and townships 9 and 10 in range 25; all townships 11 and 12 in ranges 24 and 25, west of the fourth meridian. Secretary-treasurer, Andrew Russell, Kenex, Alberta. Rate of assessment 1910, \$3.00 per quarter section.

7-S-4—Organized 1906.—Townships 13 and 14, ranges 24 and 25, west of the fourth meridian. Secretary-treasurer, Carl Taylor, Stavely, Alberta. Rate of assessment 1910, \$3.00 per quarter section.

8-S-4—Organized 1906.—Townships 15 and 16, ranges 23 and 24, west of the fourth meridian. Secretary-treasurer, Harry A. Hill, Thigh Hill, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

9-S-4—Organized 1908.—Townships 17, 18 and 19 in ranges 23 and 24, west of the fourth meridian. Secretary-treasurer, W. H. Olliffe, Arrowwood, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

15-S-4—Organized 1906.—Townships 29 and 30 in ranges 23 and 24, west of the fourth meridian. Secretary-treasurer, S. B. Good, Carbon, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

16-S-4—Organized 1906.—Townships 31 and 32 in ranges 22, 23 and 24, west of the fourth meridian. Secretary-treasurer, Henry Evans, Three Hills, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

17-S-4—Organized 1907.—Parts west of the river of township 33 and 34 in range 21, and all townships 33 and 34 in ranges 22, 23 and 24, west of the fourth meridian. Secretary-treasurer, L. E. Roach, Huxley, Alberta. Rate of assessment 1910, \$6.40 per quarter section.

18-S-4—Organized 1906.—Townships 35 and 36 in ranges 23 and 24, west of the fourth meridian. Secretary-treasurer, C. Mudge, Lake View, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

19-S-4—Organized 1905.—Township 37 in ranges 23 and 24; part south and east of the river of township 38 in range 23; part south of the river of township 38 in ranges 24 and 25, and south of the river of township 37 in range 25; part south and west of the river of townships 37, 38 and 39 in range 22, west of the fourth meridian. Secretary-treasurer, A. T. Rowell, Hillsdown, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-S-4—Organized 1904.—Parts north of the river of township 38 in ranges 23 and 24 and all townships 39 and 40 in ranges 23 and 24, west of the fourth meridian. Secretary-treasurer, P. Russell, Lignite, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-S-4—Organized 1904.—Townships 41 and 42 in ranges 23 and 24, west of the fourth meridian. Secretary-treasurer, C. E. Owens, Wood River, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-S-4—Organized 1904.—Parts not in Indian Reserve of township 42 in ranges 23, 24 and 25 and township 44 in range 25; all townships 43 and 44 in range 26, west of the fourth meridian. Secretary-treasurer, T. W. Hutchinson, Ponoka, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-S-4—Organized 1904.—Parts west of the river of townships 45 and 46 in ranges 22 and 23; all townships 46 in ranges 24 and 25 and the east

half of township 45 in range 24, west of the fourth meridian. Secretary-treasurer, D. A. Ward, Wetaskiwin, Alberta. Rate of assessment 1910 \$8.00 per quarter section.

24-S-4—Organized 1904.—Parts west of the lake of townships 47 and 48 in range 23 and all townships 47 and 48 in ranges 24 and 25, west of the fourth meridian. Secretary-treasurer, E. P. Bennett, Millet, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-S-4—Organized 1904.—Townships 49 and 50 in ranges 23, 24 and 25, west of the fourth meridian. Secretary-treasurer, Wm. Heatley, Leduc, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-S-4—Organized 1904.—Townships 51 and 52 in range 23, township 51 in range 24; parts south and east of the river of township 51, range 25, and township 52, range 24, and all township 52 in range 25, west of the fourth meridian. Secretary-treasurer, Edw. Gee, Strathcona, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-S-4—Organized 1904.—Parts north and west of the river of township 53, range 23, and parts north and west of the river of townships 52 and 54 in range 25; parts south and east of the river of townships 53 and 54 in range 25; all township 54 in range 23 and all townships 53 and 54 in range 24, west of the fourth meridian. Secretary-treasurer, M. Hogan, St. Albert, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

28-S-4—Organized 1904.—Townships 55 and 56 in ranges 24 and 25, west of the fourth meridian. Secretary-treasurer, G. Morris, Excelsior, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

29-S-4—Organized 1904.—Townships 57 and 58 in ranges 24 and 25 and township 59 in range 24, west of the fourth meridian. Secretary-treasurer, J. B. Cote, Legal, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

4-T-4—Organized 1906.—Parts west of the river of township 7 in ranges 24 and 25 and township 8 in ranges 24 and 25; all of townships 7 and 8 in range 26, west of the fourth meridian. Secretary-treasurer, W. A. Day, Macleod, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

5-T-4—Organized 1906.—Parts north of the river of township 9 in ranges 26 and 27; all township 10 in ranges 26 and 27, west of the fourth meridian. Secretary-treasurer, H. Mackintosh, Macleod, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

6-T-4—Organized 1906.—Township 11 and 12 in ranges 26 and 27, west of the fourth meridian. Secretary-treasurer, A. H. Tovell, Claresholm, Alberta. Rate of assessment, \$3.20 per quarter section.

7-T-4—Organized 1906.—Townships 13 and 14 in ranges 26 and 27, west of the fourth meridian. Secretary-treasurer, J. B. Robertson, Stavely, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

8-T-4—Organized 1906.—Townships 15 and 16 in ranges 25 and 26, west of the fourth meridian. Secretary-treasurer, D. E. McLean, Nanton, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

9-T-4—Organized 1906.—Townships 17 and 18 in ranges 25 and 26, west of the fourth meridian. Secretary-treasurer, A. C. McIntyre, Brant, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

10-T-4—Organized 1906.—Townships 19 and 20 in range 25 and south of the river of township 21 in ranges 25 and 26 and township 22, range 25, and all townships 19 and 20 in range 26, west of the fourth meridian. Secretary-treasurer, F. E. Rhoades, Dinton, Alberta. Rate of assessment 1910, \$5.60 per quarter section.

12-T-4—Organized 1910.—Portion west of reserve and north of river of township 22 in range 24, portion north of river of townships 21 and 22 in range 25, township 23, range 25, portion not included in Indian Reserve of township 23 in range 24, and townships 24 in ranges 24 and 25, west of the fourth meridian. Secretary-treasurer, H. A. Michaels, Strathmore, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

13-T-4—Organized 1911.—Townships 25 and 26 in ranges 26 and 27, and north half of township 24 in ranges 26 and 27, west of the fourth meridian. Secretary-treasurer, D. W. Powers, Keoma, Alberta. Rate of assessment, \$8.00 per quarter section.

15-T-4—Organized 1905.—Townships 29 and 30 in ranges 25 and 26, west of fourth meridian. Secretary-treasurer, W. Bannerman, Acme, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

16-T-4—Organized 1904.—Townships 31 and 32 in ranges 25 and 26, west of the fourth meridian. Secretary-treasurer, Jno. McAlpine, Sunny Slope, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

17-T-4—Organized 1904.—Townships 33 and 34 in ranges 25 and 26, west of the fourth meridian. Secretary-treasurer, J. H. McArthur, Milner-ton, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

18-T-4—Organized 1904.—Townships 35 and 36 in ranges 25 and 26, west of the fourth meridian. Secretary-treasurer, F. J. Powell, Edwell, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

19-T-4—Organized 1904.—All township 37 in ranges 26 and 27, parts south of the river of townships 38 and 39 in range 26; parts east of the river of townships 37 and 38 in range 28; parts south and east of the river of townships 38 and 39 in range 27, west of the fourth meridian. Secretary-treasurer, W. P. Code, Red Deer, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-T-4—Organized 1904.—Parts north of the river of township 38 in ranges 25 and 26; all townships 39 and 40 in range 25; north of the river of township 39 in range 26 and all township 40 in range 26, west of the fourth meridian. Secretary-treasurer, E. Wal. Simpson, Lacombe, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-T-4—Organized 1904.—Townships 41 and 42 in ranges 25 and 26, west of the fourth meridian. Secretary-treasurer, J. H. Webster, Morning-side, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-T-4—Organized 1904.—Townships 45 and 46 in ranges 26, 27 and 28, west of the fourth meridian. Secretary-treasurer, L. P. Larson, Wetaskiwin, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-T-4—Organized 1904.—Townships 47 and 48 in ranges 26, 27 and 28, west of the fourth meridian. Secretary-treasurer, S. L. Price, Conjur-ing Creek, Alberta. Rate of assessment, 1910, \$8.00 per quarter section.

25-T-4—Organized 1904.—Township 49 in ranges 26, 27 and 28; parts south of the river of township 50 in ranges 26, 27 and 28, west of the fourth meridian. Secretary-treasurer, Olaf C. Melin, Calmer, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-T-4—Organized 1904.—Parts north of the river of township 50 in ranges 26, 27 and 28, parts west of the river of township 51 in range 25; all townships 51 and 52 in range 26; fractional townships 51 and 52 in ranges 27 and 28, west of the fourth meridian. Secretary-treasurer, E. Pinchbeck, Winterburn, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-T-4—Organized 1904.—Townships 53 and 54 in range 26; parts not in Indian Reserve of townships 53 and 54 in range 27, west of the fourth meridian. Secretary-treasurer, Edm. Pinchbeck, Winterburn, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

28-T-4—Organized 1904.—Townships 55 and 56 in range 26; parts not in Indian Reserve of townships 55 and 56 in range 27, west of the fourth meridian. Secretary-treasurer, P. E. Constantin, Riviere Qui Barre, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

29-T-4—Organized 1905.—Townships 57 and 58 in ranges 26 and 27, west of the fourth meridian. Secretary-treasurer, Jno. E. Williams, Inde-pendence, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

30-T-4—Organized 1906.—Townships 59 and 60 in ranges 25, 26 and 27, west of the fourth meridian. Secretary-treasurer, W. M. Garrison, Edison, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

8-W-4—Organized 1904.—Townships 15 and 16, ranges 27, 28, 29 and 30, west of the fourth meridian. Secretary-treasurer, Jas. T. Cooper, Nanton, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

9-W-4—Organized 1904.—Townships 17 and 18 in ranges 27, 28, 29 and 30, west of the fourth meridian. Secretary-treasurer, Wm. Caspell, Cayley, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

10-W-4—Organized 1904.—Townships 19 and 20 in range 27; part south of the Bow River of township 21 in range 27; parts south and east of High River of townships 19, 20 and 21, in range 28, west of the fourth meridian. Secretary-treasurer, H. Hill Wilson, Gladys, Alberta. Rate of assessment 1910, \$4.80 per quarter section.

12-W-4—Organized 1905.—Parts north of the river of township 21 in ranges 26 and 27; all townships 22 and 23 in ranges 26 and 27; south half of township 24 in ranges 26 and 27, west of the fourth meridian. Secretary-treasurer, Wm. Kirton, Cheadle, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

13-W-4—Organized 1906.—Parts north half of township 24 in ranges 28 and 29, all townships 25 and 26 in ranges 28 and 29, west of the fourth meridian. Secretary-treasurer, Jno. Redmond, Rock View, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

14-W-4—Organized 1906.—Townships 27 and 28 in ranges 27, 28 and 29, west of the fourth meridian. Secretary-treasurer, Thos. H. E. Magee, Crossfield, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

15-W-4—Organized 1904.—Townships 29 and 30 in ranges 27, 28 and 29, west of the fourth meridian. Secretary-treasurer, Fred R. Robinson, Carstairs, Alberta. Rate of assessment 1910 \$8.00 per quarter section.

16-W-4—Organized 1904.—Townships 31 and 32 in ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer, Malcolm McLean, Neapolis, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

17-W-4—Organized 1904.—Townships 33 and 34 in ranges 27, 28 and 29, west of the fourth meridian. Secretary-treasurer, B. O. Sannes, Bowden, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

18-W-4—Organized 1904.—Townships 35 and 36 in range 27; parts east of the Red Deer River of townships 35 and 36 in range 28, west of the fourth meridian; townships 35 and 36, range 1, and parts south of the river of townships 35 and 36 in range 2, west of the fifth meridian. Secretary-treasurer, W. A. Aspinall, Innisfail, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-W-4—Organized 1904.—Part west of the river township 39 in range 27; parts north and west of the river of township 39 in range 28; all township 40 in ranges 27 and 28, west of the fourth meridian. Secretary-treasurer, Jas. McNichol, Blackfalds, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-W-4—Organized 1904.—Townships 41 and 42 in ranges 27 and 28, west of the fourth meridian. Secretary-treasurer, James Kinley, Iowalta, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-W-4—Organized 1905.—Townships 43 and 44 in ranges 27 and 28, west of the fourth meridian. Secretary-treasurer, Jas D Stewart, Ferrybank, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

2-Z-4—Organized 1904.—Townships 3 and 4 in ranges 29 and 30 and township 4 in range 28, west of the fourth meridian. Secretary-treasurer, J. E. Hillier, Twin Butte, Alberta. Rate of assessment 1911, \$6.00 per quarter section.

3-Z-4—Organized 1904.—Townships 5 and 6 in ranges 28, 29 and 30, west of the fourth meridian. Secretary-treasurer, J. W. Harwood, Pincher Creek, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

4-Z-4—Organized 1906.—Townships 7 and 8 in ranges 29 and 30, west of the fourth meridian, and sections 7 and 18 in township 7, range 28, west of the fourth meridian. Secretary-treasurer, L. J. Boag, Pincher Station, Alberta. Rate of assessment 1910, \$5 00 per quarter section.

10-Z-4—Organized 1905.—Township 20 in ranges 1, 2 and 3, west of the fifth meridian; parts west of the river of township 20 in ranges 28 and 29; parts south and west of the river of township 21 in range 28; parts south of the river of township 22 in range 28 and township 21, range 29, west of the fourth meridian. Secretary-treasurer, E. A. Hayes, Okotoks, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

12-Z-4—Organized 1905.—Part north of the river of townships 21 and 22, range 28; all township 23, range 28; north and east of the river of 21, range 29; east of the river of townships 22 and 23 range 29, west of the fourth meridian; east of the river of townships 22 and 23, range 1, west of the fifth meridian; south half of township 24 in ranges 28 and 29, west of the fourth meridian, and south and east of the river of township 24, range 1, west of the fifth meridian. Secretary-treasurer, William Hinde, Bow Hill, Calgary, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

3-A-5—Organized 1904.—Townships 5 and 6 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, E. P. Holmes, Mountain Mill, Alberta. Rate of assessment 1910, \$5.00 per quarter section.

4-A-5—Organized 1904.—Townships 7, 8 and 9 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, R. H. Burn, Gillingham, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

9-A-5—Organized 1905.—Parts south of the river of townships 17 and 18 in range 1; all township 17 in ranges 2 and 3 and parts south of the river of township 18 in ranges 2 and 3, west of the fifth meridian. Secretary-treasurer, S. M. Mace, Pekisko, Alberta. Rate of assessment 1910, \$2.00 per quarter section.

10-A-5—Organized 1905.—Parts north of the river of township 18 in ranges 29 and 30; fraction west of the river of township 19 in ranges 28, 29 and 30; north of the river of townships 18 and 19, range 1, and north of the river of township 18 in ranges 2 and 3, west of the fifth meridian;

all township 19 in ranges 2 and 3, west of the fifth meridian. Secretary-treasurer, Jno. McIntyre, High River, Alberta. Rate of assessment 1910, \$4.40 per quarter section.

11-A-5—Organized 1904.—Townships 21 and 22 in ranges 1 and 2, part between the Bow and the Elbow Rivers of township 23 in range 1, west of the fifth meridian; parts west of the river of townships 22 and 23 in range 29, west of the fourth meridian. Secretary-treasurer, E. J. Kieran, Millarville, Alberta. Rate of assessment 1910, \$4.80 per quarter section.

12-A-5—Organized 1904.—Parts north and west of the river of township 23 in range 1; south of the river of township 24 in range 1; south and west of the river of townships 24 and 25 in range 2; east half of township 24 in range 4 and all township 24 in range 3 and south and west of the river of township 25 in range 3, west of the fifth meridian. Secretary-treasurer, T. K. Fullerton, Calgary, Alberta. Rate of assessment 1910, \$4.00 per quarter section.

13-A-5—Organized 1905.—Parts north and east of the river of townships 25 and 26 in ranges 1 and 2 and township 24 in range 2; north half of township 24 in range 1, west of the fifth meridian. Secretary-treasurer, E. J. Riley, Calgary, Alberta. Rate of assessment 1910, \$3.20 per quarter section.

14-A-5—Organized 1904.—Townships 27 and 28 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, Leslie Farr, Airdrie, Alberta. Rate of assessment, \$8.00 per quarter section.

15-A-5—Organized 1904.—Townships 29 and 30, in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, Jos. G. King, Carstairs, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

16-A-5—Organized 1904.—Townships 31 and 32 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, A. M. McNaughton, Didsbury, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

17-A-5—Organized 1904.—Townships 33 and 34 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, H. E. Shenfield, Bowden, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

18-A-5—Organized 1904.—Part west of the river of township 36 in range 28, west of the fourth meridian; parts north of the river of township 36 in range 1 and north of the river of townships 35 and 36 in range 2; all township 35 in range 4 and part north of the river of township 35 in range 3; township 36 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, D. Sullivan, Innisfail, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

19-A-5—Organized 1904.—Parts west of the Red Deer River of township 38 in ranges 27 and 28 and townships 37 in range 28; all townships 37 and 38 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, E. S. Grimson, Burnt Lake, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-A-5—Organized 1904.—Townships 39 and 40 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, J. C. Carritt, Bentley, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

21-A-5—Organized 1904.—Townships 41 and 42 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, C. H. Whitworth, Bentley, Alberta. Rate of assessment, 1910, \$8.00 per quarter section.

22-A-5—Organized 1905.—Townships 43 and 44 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, Curtis J. Eley, Ponoka, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

23-A-5—Organized 1906.—Townships 45 and 46 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, A. E. Heacock, Battle Lake, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

24-A-5—Organized 1910.—Townships 47 and 48 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, R. G. Halliday, Bonnie Glen, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-A-5—Organized 1906.—Township 49 in ranges 1 and 2; township 50 in range 2, south of the river of township 51 in range 2, and all township 50 in range 1, west of the fifth meridian. Secretary-treasurer, Geo. McFarquhar, Telfordville, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-A-5—Organized 1904.—Part north of the river of township 50 in range 1; townships 51 and 52 in range 1; townships 51 and 52 in range 2 and north of the river of township 50 in range 2, west of the fifth meridian. Secretary-treasurer, Jas. Catock, Mewassin, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-A-5—Organized 1905.—Townships 53 and 54 in range 28, west of the fourth meridian; townships 53 and 54 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, Arthur Priestley, Onoway, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

28-A-5—Organized 1908.—Part not included in Indian Reserve of township 55, range 1 and township 56, range 1; all townships 55 and 56 in range 2, west of the fifth meridian. Secretary-treasurer, Jno. J. Hayard, Nakamun, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

29-A-5—Organized 1907.—Townships 57 and 58 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, Wm. Hood, Dunstable, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

30-A-5—Organized 1908.—Townships 59 and 60 in ranges 1 and 2, west of the fifth meridian. Secretary-treasurer, A. M. Kipp, Eastburg, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

11-B-5—Organized 1904.—Townships 21 and 22 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, J. W. Ockley, Calgary, Alberta. Rate of assessment 1910, \$3.20 per quarter section.

15-B-5—Organized 1905.—Townships 29 and 30 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, G. B. Hunter, Dog Pound, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

16-B-5—Organized 1904.—Townships 31 and 32 in ranges 3 and 4; all township 31, range 5, and the part south and east of the Red Deer River of township 32, range 5, west of the fifth meridian. Secretary-treasurer, Walter B. Smith, Didsbury, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

17-B-5—Organized 1905.—Townships 33 and 34 in range 3, south and east of river; parts south and east of Red Deer River of townships 34 and 35 in range 3; south and east of Red Deer River of township 34 in range 5 and township 33, range 5; all township 34, range 4, west of the fifth meridian. Secretary-treasurer, Lou Neary, Mound, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

19-B-5—Organized 1904.—Townships 37 and 38 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, G. L. Caton, Evarts, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-B-5—Organized 1904.—Townships 39 and 40 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, E. N. French, Evarts, Alberta. Rate of assessment 1910, \$7.00 per quarter section.

21-B-5—Organized 1906.—Townships 41 and 42 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, L. G. Taylor, Rimbey, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

22-B-5—Organized 1908.—Townships 43 and 44 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, M. C. Platt, Rimbey, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-B-5—Organized 1906.—Parts north of the Saskatchewan River of township 50 in ranges 3 and 4, and townships 51 and 52 in range 3; all township 51 and 52 in range 4, west of the fifth meridian. Secretary-treasurer, M. L. Hoffman, Mewassin, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-B-5—Organized 1904.—Townships 53 and 54 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, Frank Pegrum, Wabamun, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

29-B-5—Organized 1911.—Townships 57 and 58 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, Frank W. Kerrison, Lac La Nonne, Alberta. Rate of assessment, \$8.00 per quarter section.

30-B-5—Organized 1910.—Townships 59 and 60 in ranges 3 and 4, west of the fifth meridian. Secretary-treasurer, H. D. Burch, Paddle River, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

13-C-5—Organized 1905.—Parts north of the river of township 26 in ranges 5 and 6; all township 27 in ranges 5 and 6, west of the fifth meridian. Secretary-treasurer, F. Fletcher, Morley, Alberta. Rate of assessment 1910, \$2.00 per quarter section.

17-C-5—Organized 1908.—Parts north and west of the Red Deer River of townships 32, 33 and 34 in range 5 and part north of the Red Deer River of township 32 in range 6; all townships 33 and 34 in range 6 and 7, west of the fifth meridian. Secretary-treasurer, Fred Lobley, Lobley, Alberta. Rate of assessment 1910, \$6.00 per quarter section.

18-C-5—Organized 1908.—Townships 35 and 36 in ranges 5 and 6, west of the fifth meridian. Secretary-treasurer, C. C. McCarthy, Caroline, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

19-C-5—Organized 1908.—Townships 37 and 38 in ranges 5 and 6, west of the fifth meridian. Secretary-treasurer, W. H. Comstock, Stauffer, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

20-C-5—Organized 1907.—Townships 39 and 40 in ranges 5 and 6, west of the fifth meridian. Secretary-treasurer, A. Sim, Leslieville, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

25-C-5—Organized 1908.—Parts north of the Saskatchewan River of township 50 in ranges 5 and 6, and part north of the Saskatchewan River of township 49 in range 6; all of township 51 in ranges 5 and 6, west of the fifth meridian. Secretary-treasurer, Martin McDonald, Tomahawk, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

26-C-5—Organized 1907.—Townships 52 and 53 in ranges 5 and 6, west of the fifth meridian. Secretary-treasurer, W. Merryweather, Rexboro, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

29-D-5—Organized 1910.—Townships 57 and 58 in ranges 7 and 8, west of the fifth meridian. Secretary-treasurer, H. Rathler, Hathersage, Alberta. Rate of assessment 1910, \$8.00 per quarter section.

27-E-5—Organized 1911.—Township 53 in ranges 9 and 10, part south of Chip Lake of township 54 in range 10, all of township 54 in range 9, and part north of Chip Lake of township 54 in range 10, west of the fifth meridian. Secretary-treasurer, Ernest Boyce, Junkins, Alberta. Rate of assessment, \$8.00 per quarter section.

27-J-5—Organized 1911.—Townships 53 and 54 in ranges 13 and 14, west of the fifth meridian. Secretary-treasurer, E. V. McConnell, Carrot Creek, Alberta. Rate of assessment, \$8.00 per quarter section.

VILLAGES.

There were fourteen villages established during the year 1911.

<i>Name of Village.</i>	<i>Date Established.</i>
Bashaw	Aug. 21, 1911
Botha	Sept. 5, 1911
Carlstadt	May 5, 1911
Champion	May 27, 1911
Coronation	Dec. 16, 1911
Erskine	Feb. 3, 1911
Ferintosh	Jan. 9, 1911
Grassy Lake	Feb. 9, 1911
Irricana	June 9, 1911
Kitscoty	Mar. 22, 1911
Lougheed	Oct. 8, 1911
Munson	May 5, 1911
N. Red Deer	Feb. 24, 1911
Trochu	May 30, 1911

The Villages in existence at the end of the year 1911 are as follows:

<i>Name of Village.</i>	<i>Date Established.</i>
Airdrie	Sept. 10, 1909
Alix	June 3, 1907
Acme	July 7, 1910
Blackfalds	June 17, 1904
Bowden	June 17, 1904
Bawlf	Oct. 12, 1906
Bruederheim	May 29, 1908
Bashaw	Aug. 21, 1911
Barons	June 10, 1910
Botha	Sept. 5, 1911
Bittern Lake	Nov. 21, 1904
Carlstadt	May 5, 1911
Carstairs	Mar. 15, 1903
Cayley	Aug. 5, 1904
Champion	May 27, 1911
Cochrane	June 17, 1903
Coronation	Dec. 16, 1911

Cowley	June 16, 1906
Crossfield	June 3, 1907
Diamond City.....	Aug. 15, 1910
Entwistle	Mar. 26, 1909
Evarts	June 9, 1906
Erskine	Feb. 3, 1911
Frank	Sept. 3, 1901
Perintosh	Jan. 9, 1911
Grassy Lake.....	Feb. 9, 1911
Grouard	Sept. 27, 1909
Gadsby	May 6, 1910
Holden	April 11, 1909
Innisfree	Mar. 11, 1911
Islay	Mar. 6, 1907
Irricana	June 9, 1911
Killam	Dec. 29, 1906
Kitscoty	Mar. 22, 1911
Lavoy	Aug. 22, 1906
Lille	Feb. 22, 1904
Lloydminster	July 6, 1906
Langdon	Aug. 31, 1907
Lamont	July 5, 1910
Lougheed	Oct. 8, 1911
Millet	June 17, 1903
Mountain View.....	May 7, 1902
Mannville	Dec. 29, 1906
Monarch	July 14, 1910
Mundare	Mar. 6, 1907
Munson	May 5, 1911
N. Edmonton.....	Jan. 20, 1910
New Norway.....	May 6, 1910
N. Red Deer.....	Feb. 24, 1911
Ohaton	Sept. 19, 1906
Penhold	May 4, 1904
Pincher City.....	Aug. 18, 1909
Provost	Jan. 20, 1910
Ryley	April 2, 1910
Redcliffe	Oct. 29, 1910
Stafford	Oct. 22, 1900
Stavely	Oct. 16, 1903
Stirling	Sept. 3, 1901
Spruce Grove.....	Mar. 14, 1907
Sedgewick	Mar. 6, 1907
Strome	Feb. 3, 1910
Trochu	May 30, 1911
Viking	Mar. 3, 1909
Warner	Nov. 12, 1908
West Edmonton.....	July 6, 1910

During the year 1911, Nine Villages were incorporated as towns as compared with five in the year 1910:

<i>Name of Town.</i>	<i>Date Established.</i>
Athabasca Landing.....	Sept. 19, 1911
Brooks	Sept. 8, 1911
Bassano	Jan. 16, 1911
Blairmore	Sept. 29, 1911
Carmangay	Mar. 22, 1911
Fdson	Sept. 21, 1911
Hardisty	Jan. 16, 1911
Morinville	April 18, 1911
Strathmore	July 6, 1911

COLLECTION OF ARREARS OF SCHOOL TAXES.

During the year 1911 we collected the sum of \$37,499.36 for arrears of school taxes and fees. The arrears of school taxes were forwarded to the districts to which they belonged as soon as received.

FORFEITED LANDS.

List showing lands in respect of which returns of arrears have been confirmed, and which have not been redeemed.

LANDS	DATE OF APPROVAL OF RETURN BY JUDGE	DATE OF FINAL ORDER OF FORFEITURE
S.W. quarter section 22-50-1w4.....	Apr. 14, 1910	.....
N.E. quarter section 14-10-1w4.....	Apr. 5, 1910	.....
S.E. quarter section 14-49-1w4.....	Apr. 14, 1910	.....
Lot 14, blk. 1, Lloydminster.....	Nov. 17, 1908	.....
Lot 8, blk. 10, Lloydminster.....	Nov. 17, 1908	.....
Lot 14, blk. 11, Lloydminster.....	Apr. 14, 1910	.....
S.W. quarter section 30-8-2w4.....	Jan. 14, 1909	.....
S.E. quarter section 36-9-2w4.....	Apr. 5, 1910	.....
N.E. quarter section 30-7-2w4.....	Apr. 5, 1910	.....
N.W. quarter section 16-7-2w4.....	Apr. 5, 1910	.....
S.W. quarter section 2-9-2w4.....	Apr. 5, 1910	.....
N.W. quarter section 10-11-3w4.....	Jan. 14, 1909	.....
S.W. quarter section 26-10-3w4.....	Apr. 5, 1910	.....
North half section 17-50-3w4.....	Apr. 14, 1910	.....
S.W. quarter section 16-50-3w4.....	Apr. 14, 1910	.....
N.E. quarter section 12-51-3w4.....	Apr. 14, 1910	.....
N.W. quarter section 12-51-3w4.....	Apr. 14, 1910	.....
N.W. quarter section 22-11-4w4.....	Jan. 14, 1909	.....
N.W. quarter section 10-51-4w4.....	Apr. 14, 1910	.....
N.E. quarter section 36-12-4w4.....	Apr. 5, 1910	.....
Lots 7 and 8, blk. 2, Islay.....	Apr. 14, 1910	.....
Pt. S.W. quarter section 26-16-5w4 (20 acres).....	Apr. 5, 1910	.....
N.W. quarter 32-51-5w4.....	Apr. 14, 1910	.....
Pt. N.E. quarter section 32-13-5w4 (148 acres).....	Apr. 5, 1910	.....
S.W. quarter section 25-50-5w4.....	Apr. 14, 1910	.....
S.W. quarter section 26-12-6w4.....	Jan. 14, 1909	.....
S.E. quarter section 15-52-6w4.....	Apr. 14, 1910	.....
N.E. quarter section 2-11-6w4.....	Apr. 5, 1910	.....
N.E. quarter section 28-48-6w4.....	Apr. 14, 1910	.....
S.E. quarter section 36-50-7w4 (158 acres).....	Nov. 17, 1908	.....
S. of R. of N.W. quarter section 12-13-7w4 (67.5 acres).....	Apr. 5, 1910	.....
N.E. quarter section 10-51-7w4.....	Apr. 14, 1910	.....
N. of R. of N.W. quarter section 13-2-8w4.....	Jan. 14, 1909	.....
N.W. quarter section 4-17-8w4.....	Jan. 14, 1909	.....
N.W. quarter section 2-50-9w4.....	Nov. 17, 1908	.....
Lots 16 and 17, blk. 11, Mannville.....	Apr. 14, 1910	.....
S.W. quarter section 36-51-11w4.....	Nov. 17, 1908	.....
S. half of N.W. quarter section 34-40-12w4.....	Nov. 30, 1908	.....
S.W. quarter section 12-55-12w4.....	Apr. 14, 1910	.....
N.E. quarter section 4-55-12w4.....	Apr. 14, 1910	.....
Pt. S.W. quarter section 4-55-12w4 (149 acres).....	Apr. 14, 1910	.....
N.W. quarter section 12-56-12w4.....	Apr. 14, 1910	.....
N.W. quarter section 6-49-12w4.....	Apr. 14, 1910	.....
S.E. quarter section 12-55-12w4.....	Apr. 14, 1910	.....
S.E. quarter section 2-55-12w4.....	Apr. 14, 1910	.....
S.W. quarter section 14-53-13w4.....	Apr. 14, 1910	.....
Lot 12 blk. 4, Lavoy.....	Nov. 17, 1908	.....
E. half of section 17-53-14w4.....	Nov. 17, 1908	.....
N.W. quarter section 12-2-14w4.....	Jan. 12, 1909	.....

FORFEITED LANDS.—*Continued*

LANDS	DATE OF APPROVAL OF RETURN BY JUDGE	DATE OF FINAL ORDER OF FORFEITURE
N.E. quarter section 7-53-14w4.....	Apr. 14, 1910	.....
S.E. quarter section 7-53-14w4.....	Apr. 14, 1910	.....
N.W. quarter section 10-57-14w4.....	Apr. 14, 1910	.....
S.E. quarter section 20-51-14w4.....	Apr. 14, 1910	.....
South half section 7-51-14w4.....	Apr. 14, 1910	.....
N.E. quarter section 10-52-14w4.....	Apr. 14, 1910	.....
N. half and S.E. quarter section 10-52-14w4.....	Apr. 14, 1910	.....
Pt. S.E. quarter section 30-56-14w4 (131 acres).....	Apr. 14, 1910	.....
N.E. quarter section 20-56-14w4.....	Apr. 14, 1910	.....
East half section 32-49-15w4.....	Apr. 14, 1910	.....
N.E. quarter section 6-49-15w4.....	Apr. 14, 1910	.....
N.E. quarter section 4-49-15w4 (less R. W.).....	Apr. 14, 1910	.....
West half section 9-53-15w4.....	Apr. 14, 1910	.....
Lot 25, Lac La Biche.....	April 13, 1910	.....
S.W. quarter section 28-45-16w4.....	Nov. 30, 1908	.....
S.W. quarter section 2-60-16w4.....	April 13, 1910	.....
N.E. quarter section 18-52-16w4.....	Apr. 14, 1910	.....
Pt. W. half section 19-53-16w4 (310 acres).....	Apr. 14, 1910	.....
S.W. quarter section 10-52-16w4.....	Nov. 17, 1908	.....
Lot 3, blk. 4, Mundare.....	Nov. 17, 1908	.....
Lot 11, blk. 4, Mundare.....	Apr. 14, 1910	.....
Lot 13, blk. 4, Mundare.....	Apr. 14, 1910	.....
Lots 19, 20 and 21, blk. 4, Mundare.....	Apr. 14, 1910	.....
Lots 12 and 13, blk. 5, Mundare.....	Apr. 14, 1910	.....
Lot 16, blk. 5, Mundare.....	Apr. 14, 1910	.....
Lots 18 and 19, blk. 5, Mundare.....	Apr. 14, 1910	.....
Lots 22 and 23, blk. 5, Mundare.....	Apr. 14, 1910	.....
Lots 1 to 4, blk. 11, Mundare.....	Apr. 14, 1910	.....
W. of R. of N.W. quarter section 24-41-17w4.....	Nov. 30, 1908	.....
West half of section 33-53-17w4.....	April 13, 1910	.....
N.W. quarter section 26-59-17w4.....	April 13, 1910	.....
S.E. quarter section 1-54-17w4.....	Apr. 14, 1910	.....
S.E. quarter section of 10-54-17w4.....	Apr. 14, 1910	.....
W. of R. of S.E. quarter section 26-18-18w4.....	April 6, 1910	.....
N.E. quarter section 28-50-19w4.....	April 13, 1910	.....
S.W. quarter section 32-55-19w4.....	April 13, 1910	.....
N.E. quarter section 18-37-20w4.....	Nov. 30, 1908	.....
S. half of S.W. quarter section 2-6-20w4.....	April 6, 1910	.....
Lot 52 in sections 19 and 20-6-20w4.....	April 6, 1910	.....
Lot 53 in sections 19 and 20-6-20w4.....	April 6, 1910	.....
Lot 59 in sections 19 and 20-6-20w4.....	April 6, 1910	.....
Lot 60 in sections 19 and 20-6-20w4.....	April 6, 1910	.....
S.E. quarter of section 34-55-21w4.....	Nov. 23, 1908	.....
S.W. quarter section 17-55-21w4.....	Nov. 23, 1908	.....
Lot 12 in sections 1, 12 and 13-6-21w4.....	April 6, 1910	.....
Lot 19 in sections 1, 12 and 13-6-21w4.....	April 6, 1910	.....
Lot 63 in sections 1, 12 and 13-6-21w4.....	April 6, 1910	.....
W. half of N.E. quarter section 36-6-21w4.....	April 6, 1910	.....
N. half of S.W. quarter section 23-6-21w4.....	April 6, 1910	.....
S.E. quarter section 7-53-21w4.....	April 13, 1910	.....
N.E. quarter section 32-12-21w4.....	April 6, 1910	.....
S.E. quarter section 34-53-21w4.....	April 13, 1910	.....
N.W. quarter section 4-54-21w4.....	April 13, 1910	.....
S.W. quarter section 2-54-21w4.....	April 13, 1910	.....
S.W. quarter section 18-53-21w4.....	April 13, 1910	.....
R. L. 18 in township 55-22w4.....	Nov. 23, 1908	.....
N.W. quarter section 22-22-22w4.....	Dec. 15, 1908	.....
N.W. quarter section 34-8-22w4.....	Jan. 12, 1909	.....
Lot 18, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4.....	Nov. 30, 1908	.....
Lot 19, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4.....	Nov. 30, 1908	.....
Lot 21, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4.....	Nov. 30, 1908	.....
Lot 22, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4.....	Nov. 30, 1908	.....

FORFEITED LANDS.—*Continued*

LANDS	DATE OF APPROVAL OF RETURN BY JUDGE	DATE OF FINAL ORDER OF FORFEITURE
Lot 23, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 24, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 25, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 26, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 43, blk. 1, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 5, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 6, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 22, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 23, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 24, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 25, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 28, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
Lot 29, blk. 2, Lamerton, Pt. N.W. $\frac{1}{4}$ section 34-40-22w4	Nov. 30, 1908	.....
S. half of S.E. quarter section 29-5-22w4	April 6, 1910	.....
N.W. quarter section 36-30-22w4	April 8, 1910	.....
Pt. S.E. quarter section 6-51-22w4	April 13, 1910	.....
N.W. quarter section 28-50-22w4	April 13, 1910	.....
S.W. quarter section 31-51-22w4	April 13, 1910	.....
N.W. quarter section 22-53-22w4	Nov. 23, 1908	.....
S.W. quarter section 6-51-23w4	Nov. 23, 1908	.....
N.W. quarter section 4-46-23w4	Nov. 30, 1908	.....
S.W. quarter section 34-38-23w4	Nov. 23, 1908	.....
N.W. quarter section 16-38-23w4	Nov. 23, 1908	.....
Lot 4, blk. 1, Alix, Pt. N.W. $\frac{1}{4}$ 36-39-23w4	Nov. 30, 1908	.....
Lot 21, blk. 1, Alix, Pt. N.W. $\frac{1}{4}$ 36-39-23w4	Nov. 30, 1908	.....
Lot 20, blk. 4, Alix, Pt. N.W. $\frac{1}{4}$ 36-39-23w4	Nov. 30, 1908	.....
N.E. quarter section 30-9-23w4	Dec. 18, 1908	.....
E. half of S.E. quarter section 30-9-23w4	Dec. 18, 1908	.....
S.W. quarter section 36-29-23w4	April 8, 1910	.....
N.W. quarter section 22-29-23w4	April 8, 1910	.....
N.W. quarter section 14-30-23w4	April 8, 1910	.....
Lots 37-38, blk. 4, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 33-34, blk. 6, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lot 18, blk. 19, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 19-20, blk. 19, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 6-7, blk. 3, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 3-4, blk. 19, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 33-34-35, blk. 23, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 11-12, blk. 24, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 34 to 38 inc., blk. 3, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 13 to 16 inc., blk. 4, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 5 to 15 inc., blk. 27, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
Lots 7 to 10 inc., blk. 29, Carbon, 4387-P, pt. sec. 15-29-23w4	April 8, 1910	.....
N.W. quarter section 12-53-23w4 (157.87 acres)	April 13, 1910	.....
N.E. quarter section 16-51-23w4	April 13, 1910	.....
S.E. quarter section 4-51-23w4	April 13, 1910	.....
N.W. quarter section 34-9-23w4	April 7, 1910	.....
N.E. quarter section 36-51-23w4	April 13, 1910	.....
N.E. quarter section 34-50-23w4	Nov. 23, 1908	.....
S.E. quarter section 16-38-23w4	Nov. 30, 1908	.....
N.E. quarter section 4-51-23w4	April 13, 1910	.....
Lots 17 and 18, blk. 1, Gleichen	April 8, 1910	.....
Lots 5, 6 and 7, blk. B, Gleichen	April 8, 1910	.....
S. half of S.W. quarter section 12-18-24w4	Dec. 15, 1908	.....
S. of R. of N.W. quarter section 7-3-24w4	Jan. 12, 1909	.....
S.E. quarter section 20-12-24w4	April 7, 1910	.....
N.E. quarter section 6-14-24w4	April 7, 1910	.....
S.E. quarter section 34-13-24w4 (155 acres)	April 7, 1910	.....

FORFEITED LANDS.—*Continued*

LANDS	DATE OF APPROVAL OF RETURN BY JUDGE	DATE OF FINAL ORDER OF FORFEITURE
N.W. quarter section 14-23-24w4.....	April 8, 1910	.....
N.E. quarter section 6-50-24w4.....	April 13, 1910	.....
S.W. quarter section 18-58-24w4.....	April 13, 1910	.....
S.W. quarter section 10-58-24w4.....	April 13, 1910	.....
Lot 11, blk. 3, Elm Park.....	Nov. 23, 1908	.....
S. half lot 7, blk. 3, Highland Park.....	April 13, 1910	.....
Lots 1 to 4 inc., blk. 2, Avonmore.....	April 13, 1910	.....
Lots 23 to 26 inc., blk. 2, Avonmore.....	April 13, 1910	.....
Lots 6 and 7, blk. 5, Lauderdale.....	April 13, 1910	.....
Lots 1 to 5 inc., blk. 5, Lauderdale.....	April 13, 1910	.....
Lot 7, blk. 8, Lauderdale.....	April 13, 1910	.....
Lots 101 to 105 inc., blk. 9, City View.....	April 13, 1910	.....
All of block 7, Ascot Park.....	April 13, 1910	.....
All of block 9, Ascot Park.....	April 13, 1910	.....
All of block 10, Ascot Park.....	April 13, 1910	.....
All of block 27 Ascot Park.....	April 13, 1910	.....
Lots 5 and 6, blk. 11, Rosslyn.....	April 13, 1910	.....
Lot 12, blk. 18, Rosslyn.....	April 13, 1910	.....
Lot 7, blk. 8, Rosslyn.....	April 13, 1910	.....
Lot 14, Brooklyn.....	April 13, 1910	.....
Lot 22, blk. 1, Village of Millet.....	Nov. 23, 1908	.....
W. of R. of S.E. quarter section 4-10-25w4.....	Dec 12, 1904	.....
N.E. quarter section 26-51-25w4.....	Nov. 23, 1908	.....
N. half of N.E. quarter section 20-40-25w4.....	Nov. 30, 1908	.....
S.E. quarter section 30-47-25w4.....	Nov. 30, 1908	.....
N.W. quarter section 32-37-25w4.....	Nov. 30, 1908	.....
N.E. quarter section 26-42-25w4.....	Nov. 30, 1908	.....
Pt. S.W. quarter section 31-2-25w4 (30 acres).....	April 6, 1910	.....
N.E. quarter section 10-17-25w4.....	April 8, 1910	.....
S.W. quarter section 22-18-25w4.....	April 8, 1910	.....
N.W. quarter section 34-32-25w4.....	April 8, 1910	.....
N. of R. S.E. quarter section 16-52-25w4 (10 acres)....	April 13, 1910	.....
S.E. quarter section 36-12-25w4.....	April 7, 1910	.....
N.E. quarter section 30-19-25w4.....	April 8, 1910	.....
N.W. quarter section 24-21-25w4.....	April 8, 1910	.....
South half of section 18-33-25w4.....	April 8, 1910	.....
S.W. quarter section 4-34-25w4.....	April 8, 1910	.....
Lot 4 blk. 3, Huff Estate.....	April 13, 1910	.....
Lot 10, blk. 3, Huff Estate.....	April 13, 1910	.....
Lot 4, blk. 7, Huff Estate.....	April 13, 1910	.....
Lot 10, resubdiv. lot 9, blk. 7, Huff Estate.....	April 13, 1910	.....
Lot 6, blk. 3, High Park.....	April 13, 1910	.....
Lot 12, blk. 3, High Park.....	April 13, 1910	.....
Lots 6 and 7, blk. 4, High Park.....	April 13, 1910	.....
Lot 1, blk. 5, High Park.....	April 13, 1910	.....
Lot 8, blk. 5, High Park.....	April 13, 1910	.....
Lots 1 and 2, blk. 6, High Park.....	April 13, 1910	.....
Lot 5, blk. 6, High Park.....	April 13, 1910	.....
Lot 8, blk. 6, High Park.....	April 13, 1910	.....
N.E. quarter section 18-59-25w4.....	April 13, 1910	.....
S.E. quarter section 22-53-25w4 (except roadway)....	Nov. 23, 1908	.....
N.W. quarter section 32-37-25w4 (except roadway)....	Nov. 30, 1908	.....
N.W. quarter section 16-46-25w4.....	Nov. 23, 1908	.....
N.E. quarter section 22-10-25w4.....	April 7, 1910	.....
N.W. quarter section 28-30-25w4.....	April 8, 1910	.....
Pt. N.W. quarter section 24-55-25w4 (120 acres).....	April 13, 1910	.....
S. half of N.W. quarter section 28-53-25w4.....	April 13, 1910	.....
Lot 2, blk. 10, Westgrove.....	April 13, 1910	.....
N.E. quarter section 24-50-26w4.....	Nov. 23, 1908	.....
S.E. quarter section 6-37-26w4.....	Nov. 30, 1908	.....
Lot 22, blk. 3, Morningside, pt. sec. 35-41-26w4.....	Nov. 30, 1908	.....
N.W. quarter section 22-17-26w4.....	Dec. 15, 1908	.....

FORFEITED LANDS.—Continued

LANDS	DATE OF APPROVAL OF RETURN BY JUDGE	DATE OF FINAL ORDER OF FORFEITURE
S.W. quarter section 10-1-26w4.....	Jan. 12, 1909	.....
S.E. quarter section 3-2-26w4.....	Jan. 12, 1909	.....
S.E. quarter section 12-1-26w4.....	April 6, 1910	.....
S. half of S.E. quarter section 31-2-26w4.....	April 6, 1910	.....
S.W. quarter section 18-10-26w4.....	April 7, 1910	.....
N.W. quarter section 28-30-26w4.....	April 8, 1910	.....
N.W. quarter section 28-56-26w4.....	April 13, 1910	.....
N.W. quarter section 16-7-26w4 (122 acres).....	April 7, 1910	.....
S.E. quarter section 8-9-26w4.....	April 7, 1910	.....
S. of R. of S.W. quarter section 6-9-26w4 (46 acres)...	April 7, 1910	.....
S.E. quarter section 22-59-26w4.....	April 13, 1910	.....
N.W. quarter section 12-59-26w4.....	April 13, 1910	.....
Lot 2 in section 24-53-26w4.....	Nov. 23, 1908	.....
Lot 3 in section 24-53-26w4.....	Nov. 23, 1908	.....
S.W. quarter section 31-34-27w4.....	April 8, 1910	.....
S.E. quarter section 4-34-27w4.....	April 8, 1910	.....
S.E. quarter section 10-50-27w4.....	April 13, 1910	.....
S.W. quarter section 24-53-27w4.....	April 13, 1910	.....
Pt. S.E. quarter section 6-55-27w4 (125.4 acres).....	April 13, 1910	.....
All section 31-10-27w4 (646.8 acres).....	April 7, 1910	.....
N. and E. of R. of S.W. quarter 1-10-27w4 (67.95 acres)	April 7, 1910	.....
N.E. quarter section 34-11-27w4.....	April 7, 1910	.....
S. of R. of S.W. quarter section 23-11-27w4 (18.4 acres)	April 7, 1910	.....
N.W. quarter section 28-12-27w4.....	April 7, 1910	.....
N.W. quarter section 32-54-27w4.....	April 13, 1910	.....
N.W. quarter section 36-14-28w4.....	Dec. 18, 1908	.....
E. of R. of N.E. quarter and S.W. quarter section 21-2-28w4 (180 acres).....	April 6, 1910	.....
N.E. quarter section 10-6-28w4.....	April 7, 1910	.....
South half section 26-11-28w4.....	April 7, 1910	.....
N.W. quarter section 32-15-28w4.....	April 7, 1910	.....
N.E. quarter section 12-28-28w4.....	April 8, 1910	.....
N.W. quarter section 22-31-28w4.....	April 8, 1910	.....
S.E. quarter section 14-31-28w4.....	April 8, 1910	.....
N.W. quarter section 17-32-28w4.....	April 8, 1910	.....
S.W. quarter section 15-33-28w4.....	April 8, 1910	.....
S.E. quarter section 35-2-29w4.....	April 6, 1910	.....
N.E. quarter section 4-6-29w4.....	April 7, 1910	.....
S.E. quarter section 4-6-29w4.....	April 7, 1910	.....
N.E. quarter section 34-10-29w4.....	April 7, 1910	.....
S.E. quarter section 28-12-29w4.....	April 7, 1910	.....
N.E. quarter section 7-13-29w4.....	April 7, 1910	.....
S.E. quarter section 7-13-29w4.....	April 7, 1910	.....
S.W. quarter section 7-13-29w4.....	April 7, 1910	.....
Townsite of Norma, N.E. quarter section 12-20-29w4—		
Lots 12, 18, 23 and 24, block 1.....	April 8, 1910	.....
Lots 25 to 40, block 1.....	April 8, 1910	.....
Lots 13, 14 and 15, block 1.....	April 8, 1910	.....
Lots 16 and 17, block 1.....	April 8, 1910	.....
Lots 19 and 20, block 1.....	April 8, 1910	.....
Lots 21 and 22, block 1.....	April 8, 1910	.....
Lots 1 to 7, block 2.....	April 8, 1910	.....
Lots 8 and 9, block 2.....	April 8, 1910	.....
Lots 10 to 38 inc., block 2.....	April 8, 1910	.....
Lots 39 and 40, block 2.....	April 8, 1910	.....
Lots 9, 10 and 11, block 1.....	April 8, 1910	.....
Lots 1 to 40, block 3.....	April 8, 1910	.....
Lots 1 to 5, block 4.....	April 8, 1910	.....
Lots 6 to 40, block 4.....	April 8, 1910	.....
Lots 1 to 20, block 5.....	April 8, 1910	.....
Lots 1 to 20, block 6.....	April 8, 1910	.....
S.W. quarter section 15-19-29w4.....	April 8, 1910	.....

FORFEITED LANDS.—*Continued*

LANDS	DATE OF APPROVAL OF RETURN BY JUDGE	DATE OF FINAL ORDER OF FORFEITURE
S.W. quarter section 31-9-29w4.....	April 7, 1910	.....
East half section 10-11-29w4.....	April 7, 1910	.....
N.E. quarter section 4-11-29w4.....	April 7, 1910	.....
N. of R. of N.E. quarter section 19-22-29w4 (23 acres) ..	April 8, 1910	.....
S.E. quarter section 12-7-30w4.....	Dec. 12, 1904	Dec.18,1907
S.E. quarter section 36-12-30w4.....	April 7, 1910	.....
Lot 4, blk. 29, section 10-24-1w5.....	Oct. 15, 1902	Dec.18,1907
S.W. quarter section 8-52-1w5.....	Nov. 23, 1908	.....
S.W. quarter section 27-37-1w5.....	Nov. 30, 1908	.....
S.W. quarter section 36-38-1w5.....	Nov. 30, 1908	.....
S.E. quarter section 27-36-1w5.....	Nov. 30, 1908	.....
S.W. quarter section 27-36-1w5.....	Nov. 30, 1908	.....
N.W. quarter section 10-39-1w5.....	Nov. 30, 1908	.....
Lot 10, blk. 2, Crossfield, 4501-L.....	Dec. 15, 1908	.....
E. of R. of S.E. quarter section 26-23-1w5 (32 acres) ..	April 8, 1910	.....
N. half of S.E. quarter section 28-18-1w5.....	April 8, 1910	.....
Block "R," section 18-24-1w5.....	April 8, 1910	.....
Block "I," section 18-24-1w5.....	April 8, 1910	.....
N.E. quarter of block "D," S.E. quarter sec. 32-24-1w5.	April 8, 1910	.....
Lots 31 and 32, blk. 1, Plan 2934-O.....	April 8, 1910	.....
Lots 17 and 18, blk. 3, Plan 2934-O.....	April 8, 1910	.....
Lots 25 and 26, blk. 9, Plan 2934-O.....	April 8, 1910	.....
Lots 11 and 13, blk. 10, Plan 2934-O.....	April 8, 1910	.....
Lots 14 to 19, blk. 15, Plan 2934-O.....	April 8, 1910	.....
Lots 34 to 37, blk. 21, Plan 2934-O.....	April 8, 1910	.....
Lots 21 and 22 blk. 22, Plan 2934-O.....	April 8, 1910	.....
Lots 17 to 24, blk. 23, Plan 2934-O.....	April 8, 1910	.....
Lots 39 and 40, blk. 23, Plan 2934-O.....	April 8, 1910	.....
Lots 31 and 32, blk. 23, Plan 2934-O.....	April 8, 1910	.....
Lot 20, blk. 36, Plan 2934-O.....	April 8, 1910	.....
Lots 32 and 33, blk. 5, Plan 419-R.....	April 8, 1910	.....
Lots 33 to 42, blk. 7, Plan 419-R.....	April 8, 1910	.....
Lots 1 and 2, blk. 4, Plan 1367-O.....	April 8, 1910	.....
Lots 3 and 4, blk. 4, Plan 1367-O.....	April 8, 1910	.....
Lots 5 and 6, blk. 4, Plan 1367-O.....	April 8, 1910	.....
Lots 58 and 59, blk. 4, Plan 1367-O.....	April 8, 1910	.....
Lots 60 and 61, blk. 4, Plan 1367-O.....	April 8, 1910	.....
Lots 62 and 63, blk. 4, Plan 1367-O.....	April 8, 1910	.....
Lot 2, blk. 16, Plan 2129-O.....	April 8, 1910	.....
Lots 8 and 9, blk. 16, Plan 2129-O.....	April 8, 1910	.....
Lots 28 and 29, blk. 16, Plan 2129-O.....	April 8, 1910	.....
Lots 50 and 51, blk. 16, Plan 2129-O.....	April 8, 1910	.....
Lots 43 and 44, blk. 22, Plan 2129-O.....	April 8, 1910	.....
Lots 1 and 2, blk. 23, Plan 2129-O.....	April 8, 1910	.....
Lots 22 and 23, blk. 23, Plan 2129-O.....	April 8, 1910	.....
Lots 15 and 16 blk. 24, Plan 2129-O.....	April 8, 1910	.....
Lots 34 to 39, blk. 24, Plan 2129-O.....	April 8, 1910	.....
Lots 7 and 8, blk. 25, Plan 2129-O.....	April 8, 1910	.....
Lots 23 and 24, blk. 25, Plan 2129-O.....	April 8, 1910	.....
Lots 27 and 28, blk. 25, Plan 2129-O.....	April 8, 1910	.....
Lots 31 and 32, blk. 25, Plan 2129-O.....	April 8, 1910	.....
Lots 27 and 28, blk. 26, Plan 2129-O.....	April 8, 1910	.....
Lot 9, block 28, Plan 2129-O.....	April 8, 1910	.....
Lot 12, blk. 28, Plan 2129-O.....	April 8, 1910	.....
Lots 23 and 24, blk. 15, Plan 2129-O.....	April 8, 1910	.....
Lots 60 and 61, blk. 32, Plan 2129-O.....	April 8, 1910	.....
Lots 27 and 28, blk. 41, Plan 791-P.....	April 8, 1910	.....
Lots 39 and 40, blk. 41, Plan 791-P.....	April 8, 1910	.....
Lots 15 and 16, blk. 42, Plan 791-P.....	April 8, 1910	.....
Lot 4, blk. 7, Plan 3946-N.....	April 8, 1910	.....
Lot 31, blk. 7, Plan 3946-N.....	April 8, 1910	.....
Lot 32, blk. 7, Plan 3946-N.....	April 8, 1910	.....

FORFEITED LANDS.—*Continued*

LANDS	DATE OF APPROVAL OF RETURN BY JULY 6	DATE OF FINAL ORDER OF FORFEITURE
Lots 39 and 40, blk. 23, Plan 3946-N.....	April 8, 1910	.....
Lot 4, blk. 1, Plan 4923-R.....	April 8, 1910	.....
Lots 14 and 15, blk. 2, Plan 4923-R.....	April 8, 1910	.....
S.E. quarter section 14-20-1w5.....	April 8, 1910	.....
Lots 5, 6 and 9, blk. 2, N.W. quarter section 29-24-1w5.....	April 8, 1910	.....
S.W. quarter section 4-49-1w5.....	April 13, 1910	.....
S.E. quarter section 18-50-1w5.....	April 13, 1910	.....
N.E. quarter section 10-55-1w5.....	April 13, 1910	.....
Lots 11 and 12, blk. 19, Plan 2934-O.....	April 8, 1910	.....
Lots 31 to 60, blk. 4, Plan 419-R.....	April 8, 1910	.....
Lots 43 to 45, blk. 7, Plan 419-R.....	April 8, 1910	.....
Lots 45 and 46, blk. 22, Plan 2129-O.....	April 8, 1910	.....
Lots 57 and 58, blk. 23, Plan 2129-O.....	April 8, 1910	.....
Lots 36 and 37, blk. 6, Plan 1367-O.....	April 8, 1910	.....
Lots 29 and 30, blk. 7, Plan 3946-N.....	April 8, 1910	.....
N.E. quarter section 26-51-1w5 (less railway).....	April 13, 1910	.....
Lot 21, blk. 19, Village of Carstairs.....	April 8, 1910	.....
N. of R. S.E. quarter section 30-51-2w5.....	Nov. 23, 1908	.....
S.W. quarter section 12-55-2w5.....	Nov. 23, 1908	.....
S.W. quarter section 32-43-2w5.....	Nov. 30, 1908	.....
S.E. quarter section 35-14-2w5.....	April 7, 1910	.....
S.W. quarter section 35-14-2w5.....	April 7, 1910	.....
All of section 25-14-2w5.....	April 7, 1910	.....
East half section 9-14-2w5.....	April 7, 1910	.....
N.W. quarter and S. half section 3-14-2w5.....	April 7, 1910	.....
West half of section 1-14-2w5.....	April 7, 1910	.....
N.W. quarter section 22-19-2w5.....	April 8, 1910	.....
N.W. quarter section 12-28-2w5.....	April 8, 1910	.....
S.W. quarter section 12-28-2w5.....	April 8, 1910	.....
S.E. quarter section 4-28-2w5.....	April 8, 1910	.....
N.W. quarter section 2-28-2w5.....	April 8, 1910	.....
N.E. quarter section 22-32-2w5.....	April 8, 1910	.....
N.E. quarter section 14-32-2w5.....	April 8, 1910	.....
N.E. quarter section 32-33-2w5.....	April 8, 1910	.....
N.E. quarter section 34-34-2w5.....	April 8, 1910	.....
N.W. quarter and S. half section 3-15-2w5.....	April 8, 1910	.....
S.W. quarter section 23-55-2w5.....	April 13, 1910	.....
N.E. quarter section 10-57-2w5.....	April 13, 1910	.....
S.E. quarter section 32-6-2w5.....	April 7, 1910	.....
S.W. quarter section 32-6-2w5.....	April 7, 1910	.....
S.E. quarter section 13-6-2w5.....	April 7, 1910	.....
N.W. quarter section 2-7-2w5.....	April 7, 1910	.....
N.E. quarter section 20-18-2w5.....	April 8, 1910	.....
N.W. quarter and S. half section 19-28-2w5.....	April 8, 1910	.....
N.W. quarter and S. half section 17-18-2w5.....	April 8, 1910	.....
West half section 10-21-2w5.....	April 8, 1910	.....
East half section 3-21-2w5.....	April 8, 1910	.....
N.W. quarter section 30-22-2w5.....	April 8, 1910	.....
S.E. quarter section 36-25-2w5.....	April 8, 1910	.....
S.E. quarter section 20-25-2w5.....	April 8, 1910	.....
S.W. quarter section 10-32-2w5.....	April 8, 1910	.....
Lot 7, blk. 4, Village of Evarts.....	Nov. 30, 1908	.....
Lot 8, blk. 4, Village of Evarts.....	Nov. 30, 1908	.....
Lot 9, blk. 4, Village of Evarts.....	Nov. 30, 1908	.....
N.E. quarter section 21-18-3w5.....	April 8, 1910	.....
S. of R. of N.W. quarter section 21-18-3w5.....	April 8, 1910	.....
South half section 21-18-3w5.....	April 8, 1910	.....
S.W. quarter section 36-33-3w5.....	April 8, 1910	.....
Pt. North half section 6-21-3w5 (316 acres).....	April 8, 1910	.....
N. of R. N.E. quarter section 12-25-3w5 (146 acres)...	April 8, 1910	.....
N.E. quarter section 32-26-3w5.....	April 8, 1910	.....
S.E. quarter section 26-26-3w5.....	April 8, 1910	.....

FORFEITED LANDS.—Continued

LANDS	DATE OF APPROVAL OF RETURN BY JUDGE	DATE OF FINAL ORDER OF FORFEITURE
Lot 2, Lac Ste. Anne.....	Nov. 23, 1908	.....
N.W. quarter section 22-24-4w5.....	Dec. 15, 1908	.....
East half section 23-31-4w5.....	April 8, 1910	.....
S.E. quarter section 12-33-4w5.....	April 8, 1910	.....
Pt. W. half section 18-24-4w5 (21.78 acres).....	April 8, 1910	.....
Lot 20, blk. 22, Village of Coleman.....	April 7, 1910	.....
Lots 5 and 6, blk. 2, Village of Blairmore.....	April 7, 1910	.....
S.W. quarter section 14-23-5w5.....	April 8, 1910	.....

COLLECTION OF EDUCATIONAL TAXES.

The total assessment levied under The Educational Tax Act for the year 1911 was \$126,107.84 as compared with \$162,604.73 in the year 1910; the increase in the organization of school districts causing reduction in the area subject to assessment under this Act. The total taxes collected under this Act in the year 1911 was \$101,337.75.

Your obedient servant,

JOHN PERRIE,
Tax Commissioner.

THE STEAM BOILERS BRANCH

Inside Staff..... { One Clerk-in-Charge
One Inspector
One Stenographer
Outside Staff..... { Four District Inspectors
Three Assistant Inspectors.

Returns for the year show that the remarkable increase reported for 1910 covering the number of boilers shipped into the province still continues, and must of necessity so continue, in order to keep up with the rapid progress being made in all parts of the province.

The general activity in the erection of large buildings in the various cities, new industries springing up, additions to plants already established, the development of coal mines, brick and cement works, installation of power plants in several of the smaller towns for light and water purposes, irrigation work in the south and eastern portions of the province, coupled with the ever increasing areas of land being brought under cultivation in the farming communities, all have their part in creating the demand for new boilers, the inflow of new traction outfits for ploughing and threshing purposes being particularly noticeable.

It is gratifying to note that boilers built to the regulations issued by the department in 1909 are giving entire satisfaction to steam users, and the results now seen fully justify the action taken by the government in this respect, general commendation having

taken the place of any former criticism which may have been heard from a few of the manufacturing firms at the outset when the regulations were first adopted, and the requirements are now so thoroughly understood by most firms that purchasers have no difficulty in securing prompt delivery of boilers built to conform in every detail with the regulations. As evidence in support of this, it may be stated that of the total number of boilers inspected during the year, 27 per cent. of them have been built according to designs submitted to and approved by the department.

Our inspector reports having surveyed 400 blue prints covering designs for boilers, accessories and power plants of various kinds during the year, 236 of which were finally approved and registered.

Additions to the inspection staff have been made as follows:— On May 1st, Mr. E. S. Hodges was appointed as assistant to Inspector Buxton at Calgary, and Mr. F. P. Poole as assistant to Inspector Hobson at Edmonton. In July, Mr. W. Gray was appointed to assist Inspector Marshall at Lethbridge in place of Mr. H. C. Bailey, whose services had been dispensed with.

From February to April, 58 regularly advertised examinations of candidates for engineer's certificate were held at various points in the province, and in addition to these, examinations have been held at the headquarters of each district inspector on the first Saturday in each month throughout the year. The success attending the latter fully justifies the substituting of these monthly examinations for the fall examinations previously held, but now discontinued, although this occasionally means some little inconvenience and loss of time to the inspector who may happen to be away some distance from headquarters in having to return in time to take charge of examination. 1277 candidates in all presented themselves for examination during the year.

Four registered engineers had their certificates suspended for neglect of duty proved by investigation.

Convictions were obtained in 11 cases of prosecution for violation of the Steam Boilers Act.

The work of inspecting boilers was much retarded during the summer and fall owing to very wet weather, which at times made travel through the country by teams almost impossible, consequently the number of boilers inspected did not reach expectations. Inspection certificates were issued for 1311 boilers, 86 others were inspected, but no certificates issued pending completion of heavy repairs ordered.

One fatal accident occurred through a man being caught in the gear of a threshing outfit when putting a belt on a pulley while the engine was in motion. Seven other accidents of a minor nature were also reported, but no serious or fatal injuries to any person resulted therefrom.

The following are the names and addresses of the district and assistant inspectors:

Jos. Buxton, Calgary.
David Fraser, Edmonton.
F. W. Hobson, Edmonton.
N. Marshall, Lethbridge.
W. D. Watson, Red Deer.
E. P. Poole, Edmonton.
E. S. Hodges, Calgary.
W. Gray, Lethbridge.

A consolidated summary, compiled from the inspectors' reports, showing the total number of defects found in 1456 boilers examined during the year, follows:

DEFECTS IN	Hor. Tub.	Hor. Fur.	Ret. Tub.	Loco. F'Box	Vert. Tub.	Water Tube	Total
Shell and drum	23	4	..	1	5	8	41
Front tube sheet	5	..	2	6	..	..	13
Back tube sheet	3	..	..	5	..	..	8
Top tube sheet	..	..	..	..	1	..	1
Bottom tube sheet	2	..	..	..	..	..	2
Firebox side sheet	..	..	..	37	..	..	37
(inside)	..	..	..	..	..	..	..
Firebox side sheet	..	..	..	21	..	..	21
(outside)	..	..	..	..	..	..	..
Crown sheet	..	1	1	60	3	..	65
Saddle sheet	..	..	..	..	..	..	..
Inside W. B. sheet	..	..	1	18	..	..	19
Outside W. B. sheet	..	..	1	4	..	..	5
Backsheet	..	..	..	5	..	..	5
Faceplate	..	..	..	5	..	..	5
Throat sheet	..	..	..	1	..	..	1
Foundation and door rings ..	..	..	..	4	..	..	4
Staybolts	1	1	8	59	2	..	71
Crown stays	..	..	..	16	6	..	22
Longtl. stays	1	..	..	2	..	..	3
Leaking seams	1	..	..	3	4	..	8
Rivets	..	..	..	7	1	..	8
Main flues	..	..	..	..	..	..	..
Tubes	10	2	1	40	20	12	85
Handholes and manholes	7	..	4	42	34	8	95
Studs and bracket attachment ..	..	..	..	33	..	..	33
Safety valves	10	7	11	118	24	..	170
Steam gauges	28	2	7	127	17	..	181
Water gauge fittings	27	11	9	147	28	..	222
Blow down	34	6	3	129	21	6	199
Fusible plug	14	2	..	11	5	..	32
Settings	19	..	..	..	..	10	29
Heavy scale	33	4	1	15	14	4	71
Total	218	40	49	916	185	48	1456

A schedule of certificates issued and fees collected, inspectors' annual reports, list of manufacturers and list of final certificates issued to December 31st, are appended:

	1910	1911
Number of certificates issued for boilers inspected	921	1,311
Number of advertised examinations for engineers held	95	58
Number of first class certificates issued	11	7
Number of second class certificates issued ..	45	49
Number of third class certificates issued	406	428
Number of provisional certificates issued ...	594	698
Number of second provisional certificates issued	57	89
Number of renewals of provisional certificates	51	86
Number of permits issued	59	184

FEES COLLECTED.

	1910	1911
For inspection of boilers	\$4,160.00	\$6,426.00
For special inspection of boilers ..		36.05
For examination of engineers for final certificates	2,650.00	2,523.00
For provisional certificates	2,585.00	3,517.00
For second provisional certificates..	285.00	455.00
For renewal of provisional certificates	127.50	215.00
For permits	295.00	920.00
For survey of drawings	1,458.50	1,296.00
	<u>\$11,561.00</u>	<u>\$15,388.05</u>

EXPENDITURE.

For the year ending December 31st, 1911, in connection with the administration of The Steam Boilers Act	\$20,583.99
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The following is a complete list of Manufacturers whose designs for boilers and boiler accessories have been submitted to and approved by the Department.

MANUFACTURERS OF BOILERS.

Canada.

American-Abell Co., Toronto, Ont.
 Bell (Robt.) Co., Seaforth, Ont.
 Berg Manufacturing Co., Toronto, Ont.
 Beatty (M.) and Sons, Welland, Ont.
 Caledonian Ironworks, Montreal, P. Q.
 Canada Foundry Co., Ltd., Toronto, Ont.
 Canada Iron Corporation, Ltd., Midland, Ont.
 Doty Engine Works, Goderich, Ont.
 Goldie & McCulloch, Ltd., Galt, Ont.
 Grand Trunk Pacific Railway Co., Winnipeg, Man.
 Inglis (John) Co., Ltd., Toronto, Ont.
 Jenckes Machine Co., Ltd., St. Catharines, Ont.
 Leonard (E.) and Sons, London, Ont.
 Marsh & Henthorn, Ltd., Belleville, Ont.
 Montreal Locomotive Works, Montreal, P. Q.
 Macdonald (The) Thresher Co., Stratford, Ont.
 McPherson & Sons, New Glasgow, N. S.
 Robb Engineering Co., Amherst, N. S.
 Sawyer-Massey Co., Ltd., Hamilton, Ont.
 Waterloo Manufacturing Co., Waterloo, Ont.

Waterous Engine Works Co., Ltd., Brantford, Ont.
 White (Geo.) & Sons, Ltd., London, Ont.
 Polson Iron Works, Toronto, Ont.

England.

Rushton, Proctor Co., Lincoln.
 Babcock & Wilcox Co., Ltd., London, Eng.
 Fowler (John) & Co., Leeds, York.
 Lubecker (The) Machine & Manufacturing Co., Ltd., London.
 Robey & Co., Lincoln.

United States.

Advance Thresher Co., Battle Creek, Mich.
 American Hoist & Derrick Co., St. Paul, Minn.
 Ault & Taylor Co., Mansfield, Ohio.
 Avery Company, Peoria, Ill.
 Best Manufacturing Co., San Leandro, Cal.
 Bigelow Co., New Haven, Conn.
 Bucyrus Company, Ltd., Milwaukee, Wis.
 Buffalo Steam Roller Co., Buffalo, N. Y.
 Case (J. I.) & Co., Racine, Wis.
 Clyde Iron Works, Duluth, Minn.
 Davenport Locomotive Works, Davenport, Ohio.
 Erie City Iron Works Co., Erie, Pa.
 Freeman (F.) & Sons, Racine, Wis.
 Frost Manufacturing Co., Galesburg, Ill.
 Gaar Scott Co., Richmond, Ind.
 International Boiler Works, East Stroudsburg, Pa.
 Johnston Bros., Ferryburg, Mich.
 Kelly, Springfield Road Roller Co., Springfield, Ohio.
 Leffel (J.) & Co., Springfield, Ohio.
 Marion Steam Shovel Co., Marion, Ohio.
 Muskegon Boiler Works, Muskegon, Mich.
 Mundy (J. F.) Hoisting Engine Works, Newark, N. J.
 Nichols & Shepard Co., Battle Creek, Mich.
 Oil Wells Supply Co., Pittsburg, Pa.
 Orr & Sembower, Reading, Pa.
 Power & Mining Co., Cudahy, Wis.
 Reeves & Co., Columbus, Ind.
 Rumely Co., Laporte, Ind.
 Schwab Lazotte Co., Milwaukee, Wis.
 Springfield Manufacturing Co., Springfield, Ohio.
 The Browning Engineering Co., Cleveland, Ohio.
 Union Iron Works, Erie, Pa.
 Wood Bros., Steel Self Feeder Co., Des Moines, Ohio.

MANUFACTURERS OF BOILER ACCESSORIES.

Canada.

Babcock & Wilcox Co., Ltd., Montreal, P. Q.
 Beatty & Sons, Welland, Ont.
 Canadian Fairbanks Co., Montreal, P. Q.
 Engineering Specialties Co., Toronto, Ont.
 Goldie & McCulloch Co., Ltd., Galt, Ont.
 Jenkins Bros., Montreal, P. Q.
 Leonard (E.) & Sons, London, Ont.
 Morrison (Jas.) Brass Manufacturing Co., Toronto, Ont.
 McAvity (T.) & Sons, St. John, N. B.
 Peacock Bros., Montreal, P. Q.
 Penberthy Injector Co., Hamilton, Ont.
 Robb Engineering Co., Amherst, N. S.

United States.

American Steam Gauge & Valve Co., Boston, Mass.
 Ashcroft Manufacturing Co., Chicago, Ill.
 Ashton Valve Co., Boston, Mass.
 Buckeye Iron & Brass Works, Dayton, Ohio.
 Crane & Co., Chicago, Ill.
 Crosby Steam Gauge & Valve Co., Boston, Mass.
 Industrial Instrument Co., Foxboro, Mass.
 Kunkle (E. B.) Co., Fort Wayne, Ind.
 Loneragan (J. E.) & Co. Philadelphia, Pa.
 Lunkenheimer & Co., Cincinnati, Ohio.
 Marsh (J. P.) & Co., Chicago, Ill.
 Powell (Wm.) & Co., Cincinnati, Ohio.
 Roe Stephens Co., Detroit, Mich.

CALGARY, January 5th, 1912.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
 Edmonton, Alta.

SIR,—I have the honour to submit my annual report for the year 1911, as Inspector of Boilers for district No. 2, in accordance with section 9, of the Steam Boilers Act.

During the months of March and April, 13 advertised examinations were held throughout my district in order to give engineers and firemen an opportunity to qualify for final and provisional certificates. I also held examinations at headquarters in Calgary on the first Saturday of each month during the year. Altogether, there were 371 applicants for examination and registration as engineers under the Act, these being classed as follows:

First class	1
Second class	9
Third class	126
Provisional	235

Recommendations were sent in for the issue of certificates to the successful candidates as follows:

Second class, 7; third class, 106; provisional certificates, 208; renewal of provisional certificates, 19; second provisional certificates 20, making a total of 360. There were 11 candidates who failed to qualify.

Candidates presenting engineers' certificates from other governing bodies for examination and registration in this province are as follows: British Board of Trade, 3; City of Copenhagen, Denmark, 1; Province of Saskatchewan, 15; Manitoba, 2; British Columbia, 7; Ontario, 7; Montreal, 2; Nova Scotia, 2; G. T. Ry. Co., 1; United States, 2; Minnesota, 26; Montana, 11; City of Spokane, 7; City of Chicago, 1; City of Seattle, 2; City of Tacoma, 1; City of Kansas, 1; State of Ohio, 1; Massachusetts, 1. Final certificates were recommended for the above applicants after they had been carefully examined to determine experience and ability.

Thirteen permits were issued under section 34 of the Act, to parties who wished to commence operations with threshing and contract grading, in cases where qualified engineers could not be immediately obtained.

In addition to the above examinations, considerable time has been taken up attending to contractors and others desiring information regarding the interpretation of the regulations particularly in reference to second-hand outfits. I have inspected and issued certificates for 178 boilers, visiting altogether over 200. Several of these were undergoing heavy repairs and some were being moved to other locations. One particular boiler I was compelled to condemn on account of its defective condition, the fire sheet of the first course being badly bulged, caused by oil and mud deposit. This course has been renewed and the boiler is now in operation. Condition of boilers inspected: good, 110; very fair, 54; fair, 13.

I beg to report that in the eastern part of district No. 2 a very large amount of new power has been introduced by contractors and others in connection with the big irrigation schemes and railroad extensions. The farming community have also increased their facilities in anticipation of heavy crops, and as the district has not been systematically gone through before, this necessitated a great amount of travelling in order to get in touch with some outfits, the location of which were practically unknown, and when found, the repairs ordered on the boilers in some instances were of such a nature as to make a second inspection necessary before certificate could be issued. All work in the extreme eastern end was hampered for several weeks by swarms of mosquitoes, and runaways were caused by these pests. A part of the north-east and south-east of the district was also visited, but there still remain quite a number of boilers in these parts of the district which have not been inspected for some years owing to the physical condition of the country making team travel extremely difficult. Many owners have repeatedly requested this office for visits to their outfits and the more important have been attended to where possible.

One conviction was secured for illegal operation, and many reports of similar violation of the Act were received, but upon investigating these, sufficient evidence could not be obtained to warrant taking action, due to late attention to information received, consequent on prolonged trips away from headquarters.

I have the honour to be, Sir,

Your obedient servant,

JOS. BUXTON,
Inspector of Steam Boilers.

EDMONTON, December 31, 1911.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

SIR,—I have the honour to submit the following report in connection with the inspection of steam boilers in District No. 4 for the year 1911:

On January 24th, all inspectors met in conference at Edmonton, for the purpose of arranging work for the ensuing year. At this conference, question papers were prepared for the different classes of engineer's examinations and the dates arranged for the

holding of the usual spring examinations so as to allow for the issue of certificates to the successful candidates before the season for steam plowing commenced. On March 4th, I commenced to hold the first of a series of 17 advertised examinations to be held at various points throughout the district, the last of which was held in Edmonton on April 1st.

Examinations of candidates for engineer's certificates have also been held in Strathcona on the first Saturday in each month throughout the remainder of the year. These have been fairly well attended and proved to be more satisfactory than the fall examinations formerly held at different points throughout the district, but now discontinued.

During the year, 227 candidates were examined for certificates as follows:

First class, 3; second class, 20; third class, 100; provisional, 100, and for the renewal of provisionals, 4.

Permits under section 34 of the Act, were issued to 22 applicants on account of the scarcity of qualified engineers, and in several instances, threshing machines were compelled to stand idle owing to the inability of the owners to secure men of sufficient experience in engineering, as to warrant the issue of permit to operate.

Second class engineers have been in greater demand than in former years, due in part to the enlargement of plants in the district, and also to better inducements offered in other parts of the province where mining and other industries are being opened up.

I find, during the year just closed, a very marked improvement in general workmanship on new boilers shipped into the province, over those already in operation before the adoption of boiler regulations. Manufacturers, too, are now realizing the benefits resulting to themselves through the stand taken by the department, being quite willing to conform in all particulars to the rules laid down, and are at the same time, glad to have their attention drawn to any defects which may have been overlooked in their workshops, this generally results in a more careful supervision being given to the construction of future boilers.

The improvement in the general condition of boilers inspected by me will be apparent when taking into consideration the fact that out of the total number of boilers inspected, only 36 per cent. showed defects this year, as against 86 per cent. found in last year's inspections.

I have inspected a total of 210 boilers during the year. Certificates for 195 of these were issued as follows:

Locomotive type	110
Horizontal tubular type	45
Vertical tubular type	28
Internal furnace type	3
Return tubular type	9

Certificates for the remaining 15 were held, pending completion of repairs ordered.

The main flues of two return tubular boilers collapsed, but fortunately no one was hurt thereby; these are the only accidents

reported to me during the year 1911, in connection with the operation of steam boilers.

One accident resulted fatally to Asaph Wiesbach, who was caught in the gear, while attempting to put the belt on the engine pulley while the engine was in motion.

I am, Sir,

Your obedient servant,

D. FRAZER,
Inspector of Boilers.

EDMONTON, January 1, 1912.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

SIR,—I have the honour to submit the following report to you for the year 1911, in accordance with section 9, chapter 23, The Steam Boilers Act.

During the past year I have been detailed to the inspection of boilers in that portion of the Edmonton district lying north of the Saskatchewan River between the east and west provincial boundaries. This section of the province was in former years covered by Inspector Fraser, but, owing to the large increase in the number of boilers during the past two years, together with numerous applications for engineer's licenses occasioned thereby, it became necessary to reduce Mr. Fraser's territory.

In addition to the work entailed in inspection through the above mentioned district, I have continued the survey of all boiler designs, also designs of boiler accessories and plans for new power plants which have been submitted to the department during the year. It was expected that only a portion of my time would be required for this service when the above division of territory was arranged, but it was afterwards found that the regulations governing the construction and inspection of boilers for this province has become so largely advertised, and the demand for boilers by manufacturers and others had become so great, owing to the rapid development of the province, that I had almost more work attending to the designs than one man could conveniently handle, particularly when the boilers were urgently required, as very frequently happened to be the case.

For this reason, it became necessary to add an assistant inspector to the staff in order to permit of handling the district which had been given me, and with your permission this was done. Mr. F. P. Poole being employed for this purpose on May 1st. A very necessary precaution recently adopted by the department when employing engineers for the position of inspector is to give each man from 30 to 60 days training at the outset, instructing him in the details and routine of the work, besides making him familiar with the general administration of the Act, etc. This measure has been found to almost entirely eliminate trouble and differences otherwise met with in the discharge of these duties. Mr. Poole was given a training lasting about two months, during which time he travelled with Mr. Fraser. A report of his services

for the succeeding six months from July to December will be submitted to you over his signature.

About 400 designs of various kinds, together with specifications have been received for survey during the year; 236 were finally approved and registered after being revised and made to conform with the requirements of the regulations in every detail; 109 being designs for boilers of different types, 112 designs of boiler accessories, and 15 plans covering arrangements for new power plants, showing the lay-out of steam and water piping, etc. The total fees received for the survey of above drawings amounted to \$1,296.00.

I have previously referred to the large increase in the number of boilers now operated in the province, and it may be mentioned that a check of the returns determine this increase to be approximately 30 per cent. over that of last year. 27 per cent. of the total number of boilers inspected were new ones built to approved designs and specifications, and are designated as follows:

Locomotive firebox type, traction	216
Locomotive firebox type, portable	4
Horizontal tubular type	55
Vertical tubular type	48
Water tube type	20
Internal furnace type	4

The major portion of the first named class are built for steam traction plowing engines suitable for grading and hauling purposes, and carry a working pressure of 175 pounds (maximum pressure allowed for this service under the regulations). These Alberta steam tractors have become so well known throughout Canada and the United States that they are in general demand by the farmers and contractors north and south of the boundary. The Winnipeg exhibition authorities have also made these the standard when deciding the ratings of each class entering into their annual steam plowing contest, the design from which each steam tractor is built must be in accordance with the Alberta uniform regulations, blue prints of drawings bearing this department's official stamp of approval, which also shows the calculated working pressure, etc., must be filed with the exhibition officials before the tractor can be accepted for competition in the contest.

Respecting horizontal tubular boilers, it may be of interest to note that the Grand Trunk Pacific Railway Company submitted designs and specifications for a 72"x18'0" boiler of this type, which, after being revised according to the recommendations of the department, were approved in August, 1910. This Company is now equipping all round houses and mechanical shops throughout their system with boilers built according to these approved designs and Alberta regulations. We are also in receipt of numerous enquiries from other railroad companies who have a similar object in view.

Owing to the ever-increasing demand from all sources for copies of the regulations, a reprint of same became necessary, but before ordering another issue, it was considered advisable to make several changes which would effect a still further improvement on the standard already set, several of the proposed changes being made on suggestions and requests received from the manufacturers, others from the Department of Public Works, Saskatchewan.

However, before deciding upon any change, and acting with your permission, I went to Regina and discussed matters fully with the officials of the Department of Public Works for that province, when several of the proposed revisions were agreed upon.

A new issue of the regulations has been printed which are being found very satisfactory to all concerned.

F. W. HOBSON,
Inspector of Boilers.

LETHBRIDGE, December 30, 1911.

JOHN STOCKS, ESQ.,
Deputy Minister of Public Works,
Edmonton, Alta.

SIR,—I have the honour to submit to you my annual report of work done in District No. 1 for the year ending 31st December, 1911.

The year's work began with a conference of the inspectors held at Edmonton, for the purpose of discussing matters relative to work in their respective districts, compiling of questions for examination of candidates for engineer's certificates, etc.

The improvement reported last year, covering workmanship on boilers built to Alberta regulations still continues, except in a very few instances, and the attention of the manufacturers was at once drawn to these cases, in order that the superintendent in the factory might rectify error and improve future workmanship. Firms are now endeavouring to obtain best results along these lines. Purchasers of new boilers are also expressing themselves as very well satisfied with the higher standard of efficiency obtained, resulting from the application of the regulations enforced by the department.

Beginning on February 27th, I commenced to hold a series of fourteen advertised examinations for engineers at different points in my district, finishing at Medicine Hat on March 30th. In addition to these, examinations have been held at Lethbridge on the first Saturday in each month throughout the year, which have been found to be of great convenience to candidates generally.

Owing to the large number of candidates presenting themselves during the year, a considerable amount of time has been taken up checking and reporting results of the examinations. Altogether, 422 came up for examination, and of these, 47 failed to pass for the class written for, but were awarded certificates of a lower grade.

Recommendations for the issue of certificates were forwarded to the department as follows:

First class	6
Second class	22
Third class	196
Provisional	198
Total	422

Ninety-two permits were issued under section 34 of the "Steam Boiler Act" to enable employers to keep their plants going until certified men could be obtained.

Two engineers had their certificates suspended for gross carelessness while on duty.

A large amount of correspondence from different places regarding boilers and engineer's certificates has had to be attended to. This, together with the necessity of visiting plants undergoing alterations has taken up a considerable amount of time not otherwise accounted for. Weather conditions, particularly in the spring and early fall of the year, were most unfavourable for driving and time was also lost on this account.

The number of both stationary and ploughing outfits in the district shows a large increase over last year, and with one assistant inspector, it has been found impossible to cover the whole of the southern division.

I had as my assistant, Mr. H. C. Bailey from April 19th to June 30th. During this period he inspected 60 boilers, made up as follows:

Locomotive type, 55; horizontal return tubular, 2; vertical fire tube, 3; total, 60. Condition of same: Good, 23; fair, 30; moderate, 7.

The total number of boilers inspected in this district by assistants and myself is 433.

Only a few of the boilers at the following places have been inspected: Pincher Creek, Hillcrest and Blairmore, while none of the boilers at Summerview, Cowley, Burmis, Bellevue, Lille, Coleman, Leavitt, Oil City, Mountain Hill, Medicine Hat, Irvine, Suffield and Cypress have been inspected this year.

New stationary boilers have been installed at the following places:

Blairmore coal mine	1
Blairmore brewery	1
Bellevue coal mine	2
Hillcrest coal mine	6
Beaver Creek coal mine ..	1
Pincher Creek power station	1
Macleod iron works	1
Adams coal mine	1
Royal collieries	1
Taber coal mines	3
Bow Island well drilling outfits	4
Medicine Hat rolling mills	2
Medicine Hat oil works	1

In addition to these stationary boilers, there have been 60 new traction outfits sold for operation in this district.

Number of boilers inspected and certificates issued by myself, 216; boilers inspected and no certificate issued, 4; total, 220. Condition of boilers inspected: Good, 151; fair, 65; moderate, 1; condemned, 3; total, 220.

The different types of boilers inspected may be classed as follows: Water tube, 26; horizontal tubular, 38; Robb-Mumford, 2; Robb-Brady, 4; locomotive, 126; vertical tubular, 24.

I have to report seven accidents in connection with boilers and fittings as follows:

(1) The breaking of a cast iron tee on a main steam pipe, caused by breaking of ladder with man's weight falling against same, resulting in one man being slightly scalded.

(2) The collapse of two firebox crown sheets of locomotive type boiler caused by shortness of water. Fusible plugs were scalded over. No person injured. The owners of these boilers were in charge themselves at time of accidents. One of the boilers has since been satisfactorily repaired.

(3) The bottom of four fireboxes of locomotive type boilers stripped of stay bolts, caused by frost, boilers not having been properly drained during severe weather. Investigation is pending to determine where the fault lies in these four cases.

Two firms have been prosecuted during the year under sections 27 and 35 of the "Steam Boiler Act." Fines being imposed in each case.

I have the honour to be, Sir,

Your obedient servant,

NAT. MARSHALL,
Inspector of Boilers.

RED DEER, January 1, 1912.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

SIR,—I have the honour to submit to you the following report of the work done in District No. 3 under the Steam Boilers Act for the year 1911, in compliance with section 9 of the Act.

According to instructions, I reported at Edmonton on January 14th for the purpose of assisting in the survey of boiler designs, an unusual number of which had been submitted to the department for approval and registration. Work on some of these, together with inspection work in the city of Edmonton, occupied my time until the latter part of February, when the annual conference of inspectors was held at headquarters, which I attended.

On March 4th, I returned to Red Deer and started out immediately to hold the 14 advertised examinations of engineers throughout the district. In addition to these, the regular monthly examinations of candidates for engineer's certificates have been held at Red Deer on the first Saturday of each succeeding month during the year. In all, 232 applicants presented themselves for examination, recommendations for the issue of certificates being made as follows:

Second class certificate	1
Third class certificates	45
Provisional certificates	120
Provisional certificates (renewal of)	12
2nd provisional certificates	21
Total	199

Nine candidates failed to pass the examination and 24 were turned down for lack of experience.

Thirteen permits were issued under section 34 of the Act, in cases where qualified engineers could not be immediately obtained during the rush of work in the threshing season. During the

year, information was laid, and a prosecution obtained against six different persons for illegal operation of boilers, 4 being for contravention of section 27, and 2 for contravention of section 35. More determined steps are needed to prevent offences of this nature, as the possibility of an inspector actually finding a person operating illegally is not sufficient to stop the practice.

During the year, I inspected the balance of the boilers (left over from last year) on the north side of the Red Deer river, together with those on the south side, though there are still a small number of boilers on this side of the river which it was not possible for me to inspect, the continuous wet weather rendering travel very slow and thus delaying work which otherwise would have been completed.

The purchasers of new boilers seem to be unanimous in voicing their satisfaction at the higher standard of efficiency obtained, particularly in traction outfits, due to the adoption and issue of regulations by the department for the construction and inspection of boilers.

The following is a brief summary covering the boilers visited and inspected during the year:

Inspected and certificate issued	149
Inspected and certificate issued, sec. 11, sub-sec. 2	2
Inspected and shut down for repairs	11
Inspected and certificate issued (since repaired)	1
Inspected and shut down for fee	1
Inspected at the half year	2
Inspected and no certificate issued, pending inquiries ...	1
Inspected and condemned	2
Inspected and set at 20	1
Visited and not inspected	3
Total boilers visited	173

Ratings of boilers for which inspection certificates were issued are as follows:

Good	112
Very fair	22
Fair	17
Bad	1
	152

The several types of boilers inspected are enumerated as follows:

Horizontal tubular	26
Internal furnace tubular	0
Return tubular	9
Locomotive firebox	105
Vertical tubular	19
Water tube	11
	170

No accidents have been reported to me during the year.
I have the honour to be, Sir,

Your obedient servant,

W. D. WATSON,
Inspector of Boilers.

EDMONTON, January 1, 1911.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
 Edmonton, Alta.

SIR,—I have the honour to submit the following report in connection with the inspection of boilers made by me during the year 1911.

I was appointed assistant inspector on May 1st, being detailed to work under Inspector Hobson in the Edmonton district. Owing to his time being fully occupied surveying drawings at headquarters, I was given an eight weeks' training at the outset by Inspector Fraser, which proved of great assistance, enabling me thereby to obtain a good insight and understanding regarding the nature of an inspector's duties generally which otherwise would have taken months to acquire.

Since the latter part of June, I have inspected boilers in the district north of the Saskatchewan river, travelling in a westerly direction as far as the Peavine district, easterly to Saddle Lake Indian Reserve, and northerly to Pine Creek in the Victoria district. A total number of 188 boilers were inspected, these being covered by the following summary:

Locomotive firebox type	76
Return flue type	17
Water tube type	7
Vertical type	32
Water leg type	1
Horizontal, tubular type	55
Total	188

I have no casualties or accidents of a serious or minor nature to report.

Eight permits were issued during the year in accordance with section 24 of The Steam Boilers Act.

F. P. POOLE,
Assistant Inspector of Boilers.

CALGARY, January 5, 1912.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
 Edmonton, Alta.

SIR,—I beg to submit the following report in connection with my duties as assistant inspector of boilers for the year 1911, according to section 9 of the Steam Boilers Act.

I was appointed to the staff on May 1st, as assistant to Inspector Buxton, district No. 2.

After being given some weeks training by Mr. Buxton, I commenced inspecting on June 28th, from which date to the end of the year, I visited 187 boilers, issued certificates to cover 173, 14 being left out of commission, some of the latter not having been used and the owners for the balance could not be found.

Condition of boilers inspected: Good, 67; very fair, 69; fair, 51.

I recommended the issue of provisional certificates to 11 applicants after having orally examined them as to their ability and experience, also recommended the renewal of provisional certificates for two applicants unable to attend the regular examination for final certificates.

I have the honour to be, Sir,

Your obedient servant,

E. S. HODGES,
Assistant Inspector of Boilers.

LETHBRIDGE, December 30, 1911.

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
Edmonton, Alta.

SIR,—I have the honour to submit the following report of work in district No. 1 for the year ending December 31st, 1911, in compliance with section 9 of The Steam Boilers Act.

I joined the staff on the 13th of July, and accompanied Mr. Marshall on an inspection trip lasting two weeks, in order to become familiar with the routine of the work. Since then I have inspected a total of 153 boilers classed as follows: Horizontal tubular, 6; locomotive, 124; horizontal return tubular, 9; Robb-Mumford, 4; vertical tubular, 10. General condition of boilers: Good, 124; fair, 25; moderate, 4.

There is a great improvement in construction, material and workmanship of the new boilers built in accordance with the rules of the province, as compared with the boilers shipped in previous to the regulations being put in force. The weather conditions during the fall were most unfavourable for the inspection of boilers, as driving was almost impossible.

I have examined six applicants and recommended the issue of provisional certificates in their favour, have also issued eleven permits under section 34 of the "Steam Boilers Act" to owners who were unable to procure the services of certified engineers.

I have the honour to be, Sir,

Your obedient servant,

WM. GRAY,
Junior Inspector of No. 1 Division.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>First Class.</i>			
Archibald, Harry P.	Lethbridge	*24	Aug. 15, 1900
Altham, Geo. H.	Lethbridge	23	Apr. 8, 1908
Aitken, Robert C.	Edmonton	15	June 29, 1907
Alexander, Harry G.	Edmonton	43	Apr. 13, 1907
Brisette, Narcisse	Morinville	*15	Mar. 28, 1899
Buxton, Jos.	Calgary	*35	Aug. 29, 1901
Birkett, Holland G.	Cardston	9	Sept. 5, 1906
Briggs, Thos. L.	Calgary	10	Sept. 27, 1906
Birrell, Andrew D.	Nanton	26	Aug. 28, 1908
Banks, Henry H.	Macleod	31	Dec. 14, 1908
Broughton, John Wm.	Red Deer	34	Mar. 17, 1909
Bailey, Hy. Chas.	Edmonton	50	Feb. 11, 1911
Cross, Wm.	Calgary	*2	Mar. 28, 1899
Cooper, Watt	Canmore	6	Aug. 11, 1906
Caldwell, Robt.	Edmonton	*41	Oct. 16, 1903
Cross, Isaac E.	Ponoka	*47	Oct. 15, 1904
Cope, Cuthbert E.	Edmonton	24	Apr. 22, 1908
Christie, Alex'r G.	Exshaw	19	Jan. 20, 1908
Colliard, Albert N.	Moose Jaw	21	Mar. 26, 1908
Carruthers, J. A.	Calgary	51	May 26, 1911
Davidson, James	Edmonton	38	Sept. 13, 1909
Davey, Edward	Medicine Hat	44	Apr. 25, 1910
Evans, Dan	Edmonton	*12	Mar. 28, 1899
Ewing, David	Strathcona	36	May 3, 1909
Edwards, Wm.	Lethbridge	48	Nov. 7, 1910
Fraser, David	Strathcona	*20	Oct. 9, 1899
Finch, Theo. S.	Raymond	5	Aug. 10, 1906
Gale, Ernest A.	Calgary (dup.)	29	Dec. 11, 1908
Goellnight, Leonard E.	Hillcrest	40	Mar. 30, 1910
Gray, Adam S.	Calgary	45	Apr. 29, 1910
Hindmarsh, Wm.	Calgary	41	Apr. 11, 1910
Hubbard, Sydney, T.	Edmonton	*46	Apr. 18, 1904
Heist, Wm. E.	Edmonton	*36	Dec. 18, 1901
Hobson, Francis W.	Strathcona	*50	Apr. 1, 1905
Hill, John	Edmonton	25	June 25, 1908
Hargreaves, Thos. J.	Hillcrest	55	Sept. 9, 1911
Isaac, Wm.	Calgary	14	June 20, 1907
Jackson, John A.	Strathcona	*25	Oct. 23, 1900
Jones, Herbert W.	Bellevue	30	Dec. 11, 1908
Kelly, John	Edmonton (no record)..		Dec. 3, 1905
Kearsley, Geo.	Edmonton	8	Sept. 5, 1906
Lunn, John T.	Edmonton	*53	May 26, 1905
Moore, Geo.	Frank	*55	July 21, 1905
Marshall, Jas. Wm.	Calgary	20	Jan. 20, 1908
Marshall, Nathaniel	Edmonton	32	Feb. 7, 1909
McCall, Jas. F.	Calgary	7	Aug. 11, 1906
McFee, Norman	Red Willow	*48	Nov. 22, 1904
McClymont, Jas. D.	Edmonton	27	Sept. 18, 1908

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>First Class—Continued.</i>			
McNaughton, Peter	Edmonton	*21	Oct. 9, 1899
McMillan, Hugh A.	Edmonton	47	Oct. 22, 1910
Mudie, Alf. H.	Diamond City	54	Aug. 24, 1911
Niven, Robt.	Lethbridge	*23	July 28, 1900
O'Donnell, John E.	Edmonton	37	July 5, 1909
Oliver, Ernest H.	Calgary	2	Apr. 30, 1906
Ritchie, Wm. Jas.	Canmore	4	May 15, 1906
Rice, John H.	Calgary	1	Apr. 30, 1906
Reid, Arthur	Lethbridge (dup.)	39	Jan. 22, 1910
Richardson, Matthew C.	Kipp	56	Nov. 17, 1911
Scott, John	Lethbridge	*14	Mar. 28, 1899
Stapely, Tobias B.	Edmonton	*45	Apr. 18, 1904
Shearer, Arthur	Hillcrest	16	Aug. 28, 1907
Stafford, David G.	Coleman	35	Mar. 30, 1909
Scott, James	Lille	22	Apr. 7, 1908
Scott, Robt.	Calgary	42	Apr. 11, 1910
Simpson, William	Coleman	52	June 20, 1911
Searle, William	Coal City	53	July 13, 1911
Turgeon, Cleophas	Edmonton	*5	Mar. 28, 1899
Taylor, Geo. R.	Strathcona	*11	Mar. 28, 1899
Turner, Ornelo H.	Calgary	*34	July, 1901
Tanner, Harry P.	Taber	18	Dec. 26, 1907
Todd, Wm.	Edmonton	33	Mar. 4, 1909
Verdon, Jos. B.	Calgary	49	Nov. 13, 1910
Watson, Wm. D.	Bankhead	3	May 15, 1906
Watson, John T.	Calgary	13	June 7, 1907
White, E. Lionel	Calgary	12	Apr. 6, 1907
Watson, Jas. S.	Bankhead	46	Sept. 23, 1910
<i>Second Class.</i>			
Anderson, C. J. B.	Calgary	*109	Feb. 7, 1901
Angus, Robert	Angus Ridge	*160	Oct. 2, 1901
Alderson, Robt.	Coleman	126	Apr. 22, 1908
Adair, Fred D.	Edmonton	30	May 10, 1906
Allworth, E. Mortimer	Okotoks	81	June 19, 1907
Anderson, Andrew	Calgary	208	Aug. 15, 1910
Aitken, David	Lethbridge	212	Sept. 12, 1910
Antrobus, Wm.	Edmonton	260	Nov. 17, 1911
Brisette, Louis	Morinville	193	Apr. 13, 1910
Bradden, Wm. T.	Strathcona	194	Apr. 13, 1910
Biamont, Antonio	Edmonton	195	Apr. 13, 1910
Brice, Henry B.	Calgary	207	Aug. 8, 1910
Bawtinheimer, Geo. H.	Red Deer	*7	Sept. 4, 1899
Biery, Chas.	Strathcona	*32	Mar. 9, 1900
Blatchford, K. A.	Edmonton	*88	Oct. 23, 1900
Blain, J. W.	Strathcona	*106	Dec. 31, 1900
Bannerman, Jas. A.	Red Deer	*162	Dec. 18, 1901
Brownlow, Hy. A.	Lacombe	*163	Dec. 23, 1902
Brewster, W. A.	Edmonton	*195	May 13, 1903
Bowden, H. S.	Strathcona	*198	May 13, 1903
Ballantyne, Robt.	Calgary	*229	Mar. 14, 1904
Barnhouse, Wm.	Edmonton	*244	May 26, 1904

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Second Class—Continued.</i>			
Burkholder, Hy, J.	Strathcona	*267	Oct. 15, 1904
Beamish, Crandell	Didsbury	118	Apr. 22, 1908
Bentley, Emerson D.	Medicine Hat	17	Apr. 11, 1906
Burger, M. E.	Strathcona	2	Sept. 18, 1905
Baird, Jas. B.	Red Deer	116	Apr. 14, 1908
Bryson, Wm. J.	Medicine Hat	178	Dec. 4, 1909
Blair, Wm.	Lille	25	Apr. 30, 1906
Berry, Stephen	Taber	127	Apr. 22, 1908
Brill, Geo.	Red Deer	161	Aug. 24, 1909
Brown, David	Calgary	75	May 4, 1907
Bruce, Geo.	Lethbridge	114	Apr. 8, 1908
Bagley, Wm. S.	Edmonton	156	June 18, 1909
Broadwell, Amos	Pincher Creek	170	Sept. 24, 1909
Bailey, Douglas A.	Calgary	173	Oct. 22, 1909
Brenton, Chas. J.	Edmonton	234	Apr. 1, 1911
Bratz, Emil	Pincher Creek	272	Dec. 19, 1911
Brown, Robt.	Lundbreck	261	Nov. 17, 1911
Brooks, Fred	Edmonton	259	Nov. 10, 1911
Bailey, W. Edgar	Lethbridge	273	Dec. 19, 1911
Cope, Edmund, G. M.	Lethbridge	*1	June 30, 1899
Clark, W. Harold	Edmonton	*15	Oct. 9, 1899
Conn, David	Lethbridge (dup.) ..	181	Jan. 19, 1910
Chalmers, Walter N.	Edmonton	*51	May 28, 1900
Cullen, Jas. E.	Calgary	*115	Feb. 20, 1901
Converse, Stephen J.	Ponoka	*192	Mar. 6, 1903
Clifford, Robt. A.	Strathcona	*197	May 13, 1903
Chapman, A. B.	Red Deer	*239	Apr. 18, 1904
Callery, Fredk.	Calgary (dup.)	150	Nov. 10, 1908
Coggan, Frank D.	Calgary	72	June 3, 1907
Cousins, Arthur	Calgary	24	Apr. 30, 1906
Crawford, Samuel L.	Strathcona	52	Oct. 25, 1906
Card, Caleb A.	Red Deer	53	Nov. 2, 1906
Currie, Jas. J.	Calgary	110	Mar. 23, 1908
Caldwell, Theophilus	Calgary	105	Jan. 20, 1908
Cranston, Adam	Calgary	55	Jan. 22, 1907
Clinton, Otto M.	Edmonton	79	June 14, 1907
Collins, Fred M.	Frank	88	July 16, 1907
Campbell, Mal. L.	Earlsville	96	Oct. 28, 1907
Cowall, Cedric A.	Red Deer	100	Dec. 5, 1907
Calder, Hector J.	Calgary	112	Mar. 23, 1908
Carr, Alve B.	Edmonton (dup.)	203	June 2, 1910
Cutting, Chas.	Vermillion	130	May 7, 1908
Cunningham, Wm. J.	Calgary	168	Sept. 21, 1909
Collard, Geo. Lewis	Medicine Hat	152	Jan. 18, 1909
Croft, Wm.	Strathcona	174	Oct. 27, 1909
Carpenter, Wilfred	Frank	188	Mar. 25, 1910
Cruikshanks, Geo.	Lethbridge	185	Mar. 15, 1910
Dozey, Chas.	Frank	218	Sept. 16, 1910
Duncombe, Walter	Taber	217	Sept. 16, 1910
Defieux, Chas. A.	Edmonton	216	Sept. 16, 1910
Donaldson, Maxwell	Lethbridge (dup)	182	Jan. 19, 1910
Doughty, Jas.	Calgary	*143	July 25, 1901
Dresser, Bertram W.	Wetaskiwin	*261	Oct. 15, 1904
Drader, John A.	Pincher Creek	*290	Dec. 30, 1904
Dean, David	Calgary	*298	Mar. 16, 1905
Drees, Max L.	Edmonton (dup.)	*269	Nov. 30, 1905
Danner, Clifford	Lacombe	22	Apr. 25, 1906
Duncan, Andrew, sr	Edmonton	129	May 7, 1908

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Second Class—Continued</i>			
Dick, Wm.	High River	57	Jan. 14, 1907
Duncan, Andrew, jr.	Edmonton	139	Sept. 18, 1908
Dunbar, Hy. C.	Edmonton	123	Apr. 22, 1908
Donaldson, Samuel	Lethbridge	164	Sept. 15, 1909
Dodd, Jas.	Edmonton	157	July 5, 1909
Daley, Wm.	Strathcona	163	Aug. 27, 1909
Dowsett, Nathaniel	Frank	228	Mar. 7, 1911
Davies, Samuel	Elcan	274	Dec. 19, 1911
Evans, Hy. W.	Anthracite	*28	Feb. 13, 1900
Emery, Ray C.	Strathcona	*264	Oct. 15, 1904
Evans, Wm.	Frank	7	Sept. 18, 1905
Eby, Josiah S.	Didsbury	95	Oct. 24, 1907
Evans, Geo. A.	Raymond	209	Aug. 30, 1910
Edmonds, Thos J.	Edmonton	231	Mar. 20, 1911
Elderkin, Wm. J.	Calgary	248	Aug. 22, 1911
Frieman, Manfred ..	Lethbridge ..	*171	Aug. 18, 1902
Finch, Robt. H.	Calgary	*184	Oct. 10, 1902
Fraser, Wm.	Strathcona	*265	Oct. 18, 1904
Frame, Jas. F.	Lethbridge	*219	Oct. 6, 1903
Fraser, Chas.	Okotoks	*300	Mar. 16, 1905
Fidler, J. J.	Calgary (dup.)	135	Aug. 6, 1908
Fleetwood, Howard A.	Edmonton	*262	Oct. 15, 1904
Fisk, James Geo.	Fort Saskatchewan	*307	Apr. 14, 1905
Faulkner, Jos. W.	Lundbreck	42	Aug. 11, 1906
Flan, Jas. Robt.	Calgary	85	July 16, 1907
Foote, Wm.	Pincher Creek	87	July 16, 1907
Foster, John Thos.	Calgary ..	97	Nov. 14, 1907
Grieve, David	Calgary	*111	Feb. 7, 1901
Griffiths, W. H.	Anthracite	31	May 14, 1906
Garneau, Alexr.	Strathcona ..	*266	Oct. 15, 1904
Grieve, Wm.	Calgary ..	*276	Oct. 28, 1904
Gibbs, Morley C.	Calgary ..	*297	Mar. 16, 1905
Ginter, Wm. C.	Edmonton	18	Apr. 11, 1906
Garner, Anthony	Bankhead ..	33	May 14, 1906
Godson, Wm.	Bankhead ..	83	June 26, 1907
Good, Wm.	Calgary	134	Aug. 6, 1908
Going, Philip S.	Mountain View	238	Apr. 24, 1911
Graves, Jas. H.	Calgary	229	Mar. 7, 1911
Gray, Wm. G.	Edmonton	241	May 16, 1911
Grant, Alex.	Calgary	250	Sept. 8, 1911
Hennegar, Ed. J.	Edmonton ..	*19	Oct. 2, 1899
Haines, Alfred H.	Edmonton	*33	May 7, 1900
Hillis, Hy.	Medicine Hat	*42	May 23, 1900
Hicklik, John W.	Calgary ..	*79	Sept. 29, 1900
Hiscon, Thos. S.	Lethbridge	*85	Sept. 29, 1900
Howell, Edward	Battleford ..	*137	May 30, 1901
Hillis, Thos.	Lethbridge	*172	Aug. 18, 1902
Henneg, Michael	Calgary ..	*183	Oct. 10, 1902
Heatley, Wm. ..	Beaumont	*274	Oct. 4, 1904
Henry, Chas.	Strathcona ..	*234	Apr. 18, 1904
Hutchings, H. E.	Edmonton	*306	Mar. 31, 1905
Hackey, Thos. H.	Evarts	117	Apr. 14, 1908
Harper, Wm. H.	Lloydminster	10	Nov. 16, 1905
Heacock, Jas. H.	Calgary	71	June 3, 1907
Hay, Geo. Porter	Pincher Creek	44	Aug. 11, 1906
Howe, Wm. Ed.	Sunny Slope	49	Sept. 8, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Second Class—Continued</i>			
Hendry, Wm. A.	Edmonton	64	May 15, 1906
Harris, Samuel D.	Red Deer	62	May 7, 1907
Harris, V. H.	Red Deer	63	May 7, 1907
Hockin, John	Edmonton	91	Oct. 15, 1907
Hill, John	Strathcona	131	May 18, 1908
Hill, Marshall	Macleod	189	Mar. 21, 1910
Henry, Walter F.	Ponoka	224	Nov. 15, 1910
Hilton, Wm. H.	Taber	213	Sept. 12, 1910
Howard, Ernest E.	Conjuring Creek	201	June 1, 1910
Horn, James	Lethbridge	187	Mar. 15, 1910
Hodges, Elmer S.	Medicine Hat	198	Apr. 25, 1910
Holford, Jos. C.	Lac Ste. Anne	206	July 29, 1910
Higgins, Alexr.	Lethbridge	211	Sept. 1, 1910
Henderson, Norman	Bellevue	230	Mar. 11, 1911
Irwin, Lester J.	Strathcona	*270	Oct. 15, 1904
Irving, Albert E.	Calgary	56	Jan. 22, 1907
Irvine, Alexr.	Calgary	165	Sept. 15, 1909
Inglis, George	Edmonton	266	Dec. 12, 1911
Judd, David H.	Calgary	*161	Oct. 5, 1901
Jarratt, Edward	Strathcona	*263	Oct. 15, 1903
Jackson, James O.	Inga	60	Apr. 8, 1907
Johnson, Pontus	Lewisville	235	Apr. 5, 1911
Jack, William	Bassano	246	June 30, 1911
Kerr, Wm.	Lethbridge (dup.)	183	Jan. 19, 1910
Kidd, Fredk.	Calgary	*62	June 14, 1900
Kowalczyck, Antoine	St. Paul de Metis	*114	Feb. 16, 1900
Kadlec, J. J.	Wetaskiwin	*236	Apr. 18, 1904
Killam, Robt. C.	Red Deer	65	May 20, 1907
Keith, Edward C.	Lille	226	Dec. 8, 1910
Livingstone, Jas. C.	Lethbridge	214	Sept. 12, 1910
Lang, Jas.	Okotoks	*301	Mar. 17, 1905
Lacey, Wm. R.	Calgary	*182	Oct. 10, 1902
Lamb, Herb. David	Frank	41	Aug. 11, 1906
LeBreton, Gustav A.	Edmonton	*308	Apr. 14, 1905
Long, John	Okotoks	45	Oct. 11, 1906
Laut, John R.	Crossfield	153	Apr. 6, 1909
LaVoi, Frank P.	Calgary	111	Mar. 23, 1908
Lavelle, Patrick	Exshaw	149	Oct. 30, 1908
Lewis, John H.	Lethbridge	166	Sept. 15, 1909
Langstroth, Alf.	Calgary	240	May 5, 1911
Lord, Victor H.	Diamond City	244	May 26, 1911
Letcher, Richard ..	Hillcrest	255	Oct. 24, 1911
Libby, Malcolm M.	Edmonton	271	Dec. 15, 1911
Moran, Austin	Lethbridge	*36	Mar. 23, 1900
Marshall, Fred, Jos.	Kamloops, B.C.	*203	Aug. 14, 1907
Morrison, John C.	Gleichen	*214	Sept. 24, 1903
Mortimer, Samuel M.	Strathcona	*241	May 26, 1904
Murray, Robinson	Calgary	104	Jan. 20, 1908
Merres, Horace	Red Deer	93	Oct. 22, 1907
Mjolness, John A.	Medicine Hat	16	Apr. 11, 1906
Mauland, Jack	Bankhead	99	Dec. 5, 1907
Morrison, Kenneth	Coleman	20	Apr. 19, 1906
Mair, Robt. B.	Strathcona	37	Aug. 8, 1906
Morgan, Thos. M.	High River	38	Aug. 7, 1906
Moore, Wm. A.	Red Deer	137	Aug. 13, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Second Class—Continued</i>			
Mueller, Karl F.	Lethbridge	147	Oct. 6, 1908
Mainwaring, John H.	Edmonton	232	Mar. 22, 1911
McKay, Daniel	Lethbridge	*4	June 30, 1899
McGee, Thos.	White Fish Lake (dup) ..	113	Mar. 28, 1908
McConnell, Wm. J.	Lethbridge	*	Oct. 8, 1903
McIntyre, John	Calgary (dup.)	48	Aug. 16, 1906
McKim, Nelson	Edmonton	14	Mar. 26, 1906
McClaffin, W. G.	Ponoka	*237	Apr. 18, 1904
McCardia, Samuel	Edmonton	78	June 14, 1907
McLean, Fredk. A.	Edmonton	*305	Mar. 31, 1905
McNeilly, S.	Okotoks	107	Mar. 23, 1908
McDonald, Simon	Frank	15	Mar. 28, 1906
McDonald, E. R.	Edmonton	120	Apr. 22, 1908
MacDonald, Alex.	Edmonton	119	Apr. 22, 1908
McDonald, John D.	Hillcrest	61	Apr. 18, 1907
McNeil, Nell S.	Calgary	68	May 23, 1909
McKinnon, Alex. J.	Lille	82	June 20, 1907
McIntyre, Jos.	Taber	84	July 8, 1907
McGregor, John	Hillcrest	90	Sept. 26, 1907
McNichol, John	Exshaw	103	Jan. 3, 1908
McFadyen, John C.	Edmonton	124	Apr. 22, 1908
McIndoe, Wm.	Calgary	136	Aug. 6, 1908
McDonald, John	Lille	172	Oct. 5, 1909
McNair, Arod N.	Lethbridge	175	Nov. 13, 1909
McGillivray, Colin	Lille	176	Nov. 13, 1909
Melvor, Wm. K.	Edmonton	196	Apr. 13, 1910
McAffer, Ronald	Medicine Hat	221	Sept. 24, 1910
McCauley, James	Edmonton	264	Nov. 30, 1911
McKenzie, Norman	Calgary	242	May 20, 1911
McKenzie, Harvey K.	Lethbridge	275	Dec. 19, 1911
Nimmons, Robt.	Lethbridge	*38	Mar. 23, 1900
Nicholson, Robt. John	Edmonton	67	Mar. 20, 1907
Oxley, John	Taber	6	Sept. 18, 1905
Olson, Harold, P. T.	Calgary	276	Dec. 28, 1911
Parcels, Timothy E.	Red Deer	*6	Sept. 4, 1899
Payzant, Ernest M.	Edmonton	*12	Oct. 9, 1899
Pratt, Geo.	Edmonton	*16	Oct. 9, 1899
Pearce, Abra.	Edmonton	*52	May 28, 1900
Pugh, John	Calgary	28	Apr. 30, 1906
Powers, Thos. E.	Strathcona	*246	May 26, 1904
Potter, Martin	Evarts	51	Oct. 5, 1906
Punnett, Lewis L.	Chesterwold	50	Oct. 4, 1906
Pallot, Herbt. J.	Edmonton	144	Sept. 28, 1908
Payzant, H. C.	Edmonton	121	Apr. 22, 1908
Price, John	Edmonton	54	Dec. 19, 1906
Patterson, John M.	Okotoks	108	Mar. 23, 1908
Prince, John E.	Calgary	76	June 4, 1907
Purvis, John	Calgary	106	Feb. 15, 1908
Poole, Fred P.	Strathcona	132	July 9, 1908
Pollock, Daniel R.	Calgary	151	Dec. 2, 1908
Pearson, Augustus	Bellevue	210	Sept. 7, 1910
Potter, John	Calgary	184	Mar. 7, 1910
Pitts, Wm. S.	Edmonton	180	Jan. 10, 1910
Pallot, Harold E.	Edmonton	191	Apr. 6, 1910
Payne, Geo.	Lethbridge	223	Oct. 20, 1910
Petrie, Robt. F.	Elcan	219	Sept. 16, 1910
Patterson, Samuel F.	Granum	254	Oct. 18, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Second Class—Continued</i>			
Pollitt, Nicholas T.	Taber	247	July 13, 1911
Pearce, William C.	Edmonton	249	Aug. 24, 1911
Pollock, Frederick	Edmonton	253	Sept. 9, 1911
Palmer, John C.	Edmonton	262	Nov. 28, 1911
Peterson, J. Anderson	Edmonton	263	Nov. 29, 1911
Reed, R. W.	Lethbridge	*5	June 30, 1899
Richards, Hy. John	Canmore	*30	Feb. 13, 1900
Rankin, Thos. Hy.	Banff	*77	Sept. 29, 1900
Roberts, Wm. B.	Fort Saskatchewan ..	*235	May 18, 1904
Ritchie, Wm. A.	Calgary	141	Sept. 22, 1908
Rich, John H.	Calgary	69	June 3, 1907
Reiton, Ole	Lethbridge	115	Apr. 8, 1908
Riddell, Arthur	Calgary	140	Sept. 22, 1908
Rice, Robt.	Calgary	222	Oct. 11, 1910
Richardson, Thos.	Calgary	220	Sept. 23, 1910
Ray, Arthur R.	Edmonton	199	May 11, 1910
Rennie, Thomas	Millet	265	Dec. 8, 1911
Schatz, Wm. H.	Strathcona	*17	Oct. 9, 1899
Shaw, M. W. S.	Midnapore	*27	Dec. 1, 1899
Stafford, Geo.	Lethbridge	160	Aug. 20, 1909
Steven, Hutton	Calgary	*43	Apr. 17, 1900
Stagg, Geo.	Calgary	*112	Feb. 7, 1901
Steven, Alfred E.	Calgary	*113	Feb. 7, 1901
Shelley, Henry Jas.	Calgary	*116	Mar. 12, 1901
Sloan, Wm.	Lethbridge	*169	July 30, 1902
Siemens, Peter	Anthracite	34	May 14, 1906
Stewart, John A.	Red Deer	12	Jan. 2, 1906
Strom, Theodore	Calgary	77	June 4, 1907
Shannon, Jas.	Calgary	*223	Nov. 6, 1903
Shackleton, Thos. A.	Kamloops	*224	Nov. 14, 1903
Starkey, Geo. J.	Ponoka	9	Nov. 2, 1905
Stokes, Robt. D.	Strathcona	19	Apr. 11, 1906
Stacey, Fredk. H.	Edmonton	1	Sept. 18, 1905
Shore, John P.	Edmonton	3	Sept. 18, 1905
Slingsby, Sidney	Calgary	74	June 3, 1907
Stanley, Chas. H.	Bankhead	32	May 14, 1906
Sefton, Fredk.	Lethbridge	39	Aug. 10, 1906
Stanley, Benj. F.	Calgary	47	Aug. 14, 1906
Syer, Thos. M.	Red Deer	94	Oct. 22, 1907
Stockdale, Thos. D.	Lethbridge	133	July 31, 1908
Simpson, Wm.	Coleman	167	Sept. 18, 1909
Sparber, Chas. H.	Lethbridge	177	Nov. 24, 1909
Searle, Wm.	Coal City	179	Dec. 4, 1909
Simondson, Hy.	Northern	197	Apr. 13, 1910
Smith, Fredk.	Coleman	215	Sept. 12, 1910
Schaumleffel, Clifford C.	Lloydminster	192	Apr. 6, 1910
Steven, John C. S.	Edmonton	204	June 22, 1910
Smith, Wm. J.	Milk River	225	Nov. 17, 1910
Scott, David S.	Coleman	256	Oct. 24, 1911
Simpson, John T.	Coleman	252	Sept. 8, 1911
Sinclair, Walter W. P.	Medicine Hat	236	Apr. 12, 1911
Saunders, Michael J.	Cardiff	267	Dec. 12, 1911
Seymour, Francis E.	Macleod	257	Oct. 24, 1911
Stobbs, John	Lethbridge	251	Sept. 9, 1911
Sowerby, William N.	Taber	258	Oct. 24, 1911
Stephenson, Jno. Leach	Lethbridge	239	Apr. 24, 1911
Stephenson, Harry	Medicine Hat	245	June 20, 1911
Singer, Wm. George	Edmonton	270	Dec. 12, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Second Class—Continued</i>			
Tabacchi, Stephen	Lethbridge	186	Mar. 15, 1910
Toreson, Thos.	Wetaskiwin	*31	Mar. 7, 1900
Thompkins, Peter	White Fish Lake	*98	Nov. 27, 1900
Tasker, Henry A.	Nanton	148	Oct. 15, 1908
Taddrew, Henry P.	Edmonton	29	May 10, 1906
Turner, Duncan	Edmonton	98	Nov. 26, 1907
Thorley, James	Taber	101	Dec. 26, 1907
Turner, Stephen F.	Taber	102	Dec. 26, 1907
Terry, Frank A.	Strathcona	171	Dec. 29, 1909
Taylor, Percy E.	Taber	145	Oct. 6, 1908
Thompson, James	Innisfail	162	Aug. 24, 1909
Von Wendel, Carl	Calgary	*222	Nov. 6, 1903
Van Haast, Julius H.	Strathcona	*278	Nov. 5, 1904
Voss, Edwin E.	Fort Saskatchewan	128	May 7, 1908
Vincent, Robt. G.	Blairmore	155	May 26, 1909
Varden, Anthony L.	Edmonton	158	July 5, 1909
Von Keekem, Barend J.	Medicine Hat	237	Apr. 12, 1911
Vaughan, Wm. Lyle	Calgary	243	May 20, 1911
Varlow, Hy. John	Edmonton	268	Dec. 12, 1911
Walker, J. B.	Lethbridge	*3	June 30, 1899
Watson, Ernest P.	Strathcona	*18	Oct. 9, 1899
White, Jas.	Canmore	*73	Sept. 5, 1900
Websdale, Francis	Edmonton	*139	June 21, 1901
Waldock, John G.	Medicine Hat	*170	Aug. 18, 1902
Waddell, O. S.	Edmonton	*245	May 26, 1904
Wright, Geo. W.	Calgary	73	June 3, 1907
Wilcox, Jas. E.	Coleman	125	Apr. 22, 1908
Walburton, John	Spring Point	8	Sept. 18, 1905
Williams, John	Edmonton	23	Apr. 30, 1906
Wilson, R. J.	High River	80	June 19, 1907
Webb, Jas. F.	Exshaw	143	Sept. 22, 1908
Walker, Thos.	Coleman	46	Aug. 14, 1906
Wilkinson, Robt.	Calgary	142	Sept. 22, 1908
Walker, Rolf A.	Edmonton	205	July 16, 1910
Warr, Percy J. H.	Lethbridge	227	Dec. 8, 1910
Winter, Archibald	Strathcona	202	June 1, 1910
Walton, John W.	Edmonton	233	Mar. 31, 1911
Willis, Robert I.	Edmonton	269	Dec. 12, 1911
Young, Geo.	Lille	43	Aug. 11, 1906
Zurlinder, John	Calgary	138	Sept. 14, 1908
<i>Third Class.</i>			
Albertson, Andrew O.	Strathcona	*135	June 25, 1901
Aikman, Geo.	Calgary	*274	Sept. 11, 1902
Allan, Albert	Edmonton	*360	May 3, 1903
Allan, Arthur	Edmonton	*526	Apr. 18, 1904
Ashcroft, Joseph	Lethbridge	*673	Nov. 24, 1904
Akey, Chas. S.	Iowalta	*759	Mar. 24, 1905
Archibald, Chester H.	Wetaskiwin	*786	Mar. 27, 1905
Ambler, David	Wetaskiwin	*790	Mar. 27, 1905
Anderson, Andrew Wm.	Wetaskiwin	*794	Mar. 27, 1905
Adair, James E.	Edmonton	263	Apr. 18, 1907
Agar, Chas.	Edmonton	143	May 29, 1906
Adshead, Herb. B.	Olds	149	May 31, 1906
Anderson, John J.	Stavely	192	Aug. 13, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Alexander, J. A.	Livingstone	203	Aug. 13, 1906
Abraham, W. R.	Lacombe	242	Sept. 28, 1906
Adams, David C.	Edmonton	207	Sept. 8, 1906
Auld, John	Edmonton	266	Apr. 30, 1907
Anderson, G. A.	Bowden	318	May 29, 1907
Anderson, Jas. J.	Crossfield	324	May 29, 1907
Anstett, Frank A.	Langdon	337	June 4, 1907
Andrews, W. H.	Stewartwyn	364	June 7, 1907
Adams, Chas. W.	Lacombe	367	June 7, 1907
Antrobus, Wm.	Edmonton	386	June 14, 1907
Anderson, Henry	Rosenroll	393	June 14, 1907
Anderson, Wm.	Killam	399	June 14, 1907
Anderson, Ed. A.	Heatherbrae	402	June 14, 1907
Ambler, Geo. D.	Wetaskiwin	411	June 14, 1907
Allan, Harrold	Calgary	563	Jan. 30, 1908
Amdhal, Theo. J.	Seven Persons	662	Apr. 27, 1908
Archibald, Syl. C.	Ferry Bank	691	May 5, 1908
Alveberry, Fred S.	Wetaskiwin	699	May 7, 1908
Atterbury, Chas. J.	Edmonton	773	Sept. 18, 1908
Asper, A.	Merna	782	Sept. 18, 1908
Ashcroft, John	Lethbridge	844	Oct. 6, 1908
Anderson, Aitken, McK.	Calgary	881	Mar. 19, 1909
Adring, Tom	Lethbridge	898	Mar. 24, 1909
Atkins, Ralph P.	New Dayton	899	Mar. 24, 1909
Aveldson, August	Sunny Slope	906	Mar. 26, 1909
Annable, Bolton A.	Claresholm	965	Apr. 16, 1909
Anderson, Edward	Sterling	988	Apr. 20, 1909
Aldridge, Oliver	Cardston	1005	Apr. 25, 1909
Arrison, Norman, W.	Gleichen	1016	Apr. 28, 1909
Arrison, Orrin S.	Gleichen	1017	Apr. 28, 1909
Anderson, Orlie H.	Sterling	1109	Sept. 15, 1909
Adams, Daniel P.	Lacombe	1173	Oct. 13, 1909
Ashburner, Edward	Lethbridge	1214	Mar. 15, 1910
Alspach, Wm. L.	Stavely	1273	Mar. 29, 1910
Anderson, Axel	Granum	1280	Mar. 30, 1910
Anderson, John H.	Round Hill	1283	Apr. 1, 1910
Atkins, C. C. L.	New Dayton	1356	Apr. 14, 1910
Anderson, Geo. H.	Barnwell	1367	Apr. 15, 1910
Aaring, Ben	Burdett	1377	Apr. 19, 1910
Allen, Ewart G.	Medicine Hat	1389	Apr. 25, 1910
Ansley, Harvey R. B.	Medicine Hat	1390	Apr. 25, 1910
Allen, Richard	Lethbridge	1421	June 11, 1910
Aitken, Jas.	Lethbridge	1475	Sept. 1, 1910
Allan, Robt.	Calgary	1519	Sept. 23, 1910
Alger, Geo. V.	Medicine Hat	1532	Sept. 24, 1910
Ameson, Sigurd A.	Eagle Hill	1550	Oct. 1, 1910
Atkinson, Wm. E.	Claresholm	1641	Mar. 15, 1911
Atkinson, Louis E.	Claresholm	1642	Mar. 16, 1911
Arbuster, John	Stony Plain	1694	Mar. 31, 1911
Aitcheson, Geo.	Green Lawn	1695	Mar. 30, 1911
Ainsley, Wm. G.	Bashaw	1712	Apr. 5, 1911
Anderberg, Claus E.	Bassano	1849	June 13, 1911
Anderson, Victor	Granum	1874	July 13, 1911
Allen, Richard	New Dayton	1974	Oct. 24, 1911
Atkinson, Thos.	Little Volga	1987	Nov. 10, 1911
Blatchford, Peter	Edmonton	*37	Nov. 28, 1899
Bawtinheimer, H. E.	Red Deer	*185	Dec. 18, 1901
Billo, Jos.	Edmonton	*193	Dec. 18, 1901
Bernier, Alexis	Lamoureux	*205	Dec. 18, 1901

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Berlinguette, Alfred	Whitford	*255	Aug. 18, 1902
Burwell, Arthur P.	Ldmonton	*354	Apr. 24, 1903
Berg, John	Fort Saskatchewan	*356	May 13, 1903
Bolduc, Jos.	Beaumont	*362	May 13, 1903
Bowers, Richard J.	Strathcona	*364	May 13, 1903
Briggs, M. R.	Red Deer	*371	May 13, 1903
Bricker, Menno C.	Okotoks	*471	Nov. 6, 1903
Brown, Robert S.	Lamoureux	*480	Jan. 15, 1904
Burbank, Lyle A.	Calgary	*483	Feb. 10, 1904
Billow, Adolph	Canmore	*486	Mar. 14, 1904
Bailey, R. B.	Edmonton	*527	Apr. 18, 1904
Brenton, J. R.	Edmonton	*544	Apr. 18, 1904
Bolduc, Peter	Beaumont	*638	Oct. 15, 1904
Bevington, Geo. E.	Strathcona	*642	Oct. 15, 1904
Browne, Thos. J.	Medicine Hat	*83	Apr. 9, 1906
Brown, John, jr.	Innisfail	*757	Mar. 24, 1905
Bruce, Chas. R.	Lacombe	*761	Mar. 24, 1905
Blewett, Wm. G.	Mewassin	*818	Apr. 14, 1905
Baclin, Theophile	Legal	*214	Aug. 14, 1906
Brunelle, John	Beaumont	*821	Apr. 14, 1906
Brodie, Wm. A.	Ponoka	*848	May 30, 1905
Blanchette, Peter	Fort Saskatchewan	257	Dec. 28, 1906
Bradbeer, Edwd.	Lethbridge	14	Sept. 16, 1905
Bilson, Wm. Jas.	Lethbridge	16	Sept. 16, 1905
Baker, Chas. L.	East Clover Bar	27	Sept. 16, 1905
Bittner, Anton	Ponoka	56	Nov. 11, 1905
Bell, Harry	Daugh	71	Mar. 16, 1906
Baker, Thos.	Calgary	72	Mar. 19, 1906
Boote, Edwd.	Pine Lake	107	Apr. 24, 1906
Bodman, John A.	Calgary	885	Mar. 18, 1909
Bartlett, Percy R.	Edmonton	142	May 29, 1906
Burns, David	Grassy Lake	170	Aug. 11, 1906
Baden, Wm. F.	High River	196	Aug. 13, 1906
Benz, August J.	Mundare	216	Sept. 13, 1906
Bates, Minor	Strathcona	225	Sept. 20, 1906
Brown, A. J.	Wavy Lake	232	Sept. 21, 1906
Bucher, L. W.	Wetaskiwin	273	May 15, 1907
Berg, John P.	Wetaskiwin	280	May 15, 1907
Barr, Ralph	Edmonton	286	May 15, 1907
Beggs, John	Innisfail	295	May 20, 1907
Buckton, Henry J.	Olds	302	May 23, 1907
Bugton, Ole G.	Harmattan	304	May 23, 1907
Bergen, Jacob	Didsbury	319	May 29, 1907
Bush, Frank C.	Didsbury	323	May 29, 1907
Barker, Wm. L.	Calgary	343	June 4, 1907
Brotherston, Robt. A.	Calgary	345	June 4, 1907
Barnes, Wm. J.	Calgary	346	June 4, 1907
Brown, Wilfred B.	Calgary	359	June 4, 1907
Bush, Henry	Blackfalds	366	June 7, 1907
Brereton, Thos. A.	Valley City	376	June 7, 1907
Brown, Wm. H.	Edmonton	385	June 14, 1907
Berry, Robt. G.	Fort Saskatchewan	392	June 14, 1907
Bradbury, Arthur T.	Edberg	398	June 14, 1907
Batke, Albert L.	Ferry Point	417	June 14, 1907
Bucker, Walter L.	Mossleigh	424	June 19, 1907
Brower, Archd. B.	Pincher Creek	928	Apr. 1, 1909
Black, Robt.	Strathcona	479	July 24, 1907
Boomer, Marshall	Blackfalds	481	July 27, 1907
Bowman, Albert	Strathcona	485	Aug. 28, 1907

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Brickman, Jos. T.	Pembina	495	Oct. 15, 1907
Bell, Wm. G.	Red Deer	515	Oct. 22, 1907
Bergen, Henry	Didsbury	527	Oct. 24, 1907
Burchnall, Frank N.	Bluff Centre	543	Oct. 28, 1907
Bawslaugh, John J.	Calgary	559	Jan. 20, 1908
Burwell, Wm.	Gladys	569	Mar. 23, 1908
Blair, Geo. R.	Claresholm	570	Mar. 23, 1908
Base, John L.	Reid Hill	572	Mar. 23, 1908
Bell, Wm. F.	High River	573	Mar. 23, 1908
Blackorby, W. G.	Claresholm	575	Mar. 23, 1908
Bowerman, Cliff	Cowley	599	Apr. 8, 1908
Banfield, J. Frank	Lethbridge	626	Apr. 9, 1908
Bryant, Percy B.	Lethbridge	627	Apr. 9, 1908
Baron, Harry	Diamond City	628	Apr. 9, 1908
Brown, John	Evarts	635	Apr. 14, 1908
Beckett, Waitland J.	Red Deer	636	Apr. 14, 1908
Brubaker, Albert J.	Medicine Hat	1376	Apr. 18, 1910
Burke, Benj. S.	Lacombe	693	May 6, 1908
Bader, Benj. H.	Lethbridge	704	May 14, 1908
Bateman, Ewart W.	Lethbridge	744	Aug. 6, 1908
Baxter, John	Red Deer	751	Sept. 3, 1908
Blacklock, Robt. O.	Westward Ho	754	Sept. 8, 1908
Butts, John H.	Olds	755	Sept. 8, 1908
Brooke, Fredk. C.	Olds	759	Sept. 11, 1908
Ball, Arthur	Mayville	767	Sept. 14, 1908
Eurns, Wm.	Higgins	768	Sept. 14, 1908
Bowick, Chas. C.	Tofield	810	Sept. 28, 1908
Bowick, John D.	Tofield	811	Sept. 28, 1908
Brown, John	Kitscoty	812	Sept. 28, 1908
Brainard, Jerome W.	Nanton	824	Oct. 2, 1908
Bowler, Thos. H.	Macleod	845	Oct. 6, 1908
Benjamin, Albert	Morinville	862	Oct. 20, 1908
Bucknam, Artliff V.	Bucknam	869	Nov. 23, 1908
Brenton, Chas. J.	Edmonton	871	Dec. 23, 1908
Bannerman, Wm.	Red Deer	*189	Dec. 18, 1901
Boomer, Alonzo	Lacombe	57	Nov. 22, 1905
Bartholomew, Claude D. ..	Morinville	886	Mar. 13, 1909
Barley, Chas.	Mountain House	887	Mar. 20, 1909
Blatchford, Arthur L.	Olds	907	Mar. 26, 1909
Bratz, Emil	Pincher Creek	1626	Mar. 11, 1911
Bessey, Alfred	Stettler	961	Apr. 13, 1909
Bell, David J.	High River	966	Apr. 16, 1909
Bailey, Geo.	Magrath	994	Apr. 22, 1909
Burton, Edar W.	Calgary	1004	Apr. 23, 1909
Bell, Andrew J.	Shepard	1018	Apr. 28, 1909
Brantz, Albert A.	Mewassin	1036	Apr. 28, 1909
Baumbach, John	Irvine	1046	May 1, 1909
Bishop, Frank E.	Medicine Hat	1047	May 1, 1909
Barnes, Edward	Edmonton	1061	May 21, 1909
Brown, Geo. C.	Edmonton	1077	May 26, 1909
Bakken, Nels O.	Iron Springs	1078	May 28, 1909
Benson, Roy,	Calgary	1080	June 8, 1909
Buchanan, Wm. E.	Nanton	1907	Aug. 24, 1911
Baker, Bernard S.	Nanton	1115	Sept. 21, 1909
Burr, John C.	Calgary	1116	Sept. 21, 1909
Betton, Thos. W.	High River	1140	Sept. 21, 1909
Boyle, Jas. E.	Blairmore	1684	Mar. 29, 1911
Bercyz, Julius	Edmonton	1976	Oct. 24, 1911
Benson, Geo.	Taber	1151	Sept. 28, 1909
Bjor, Frank	Calmar	1158	Sept. 29, 1909

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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Black, Andrew.....	Edmonton	1171	Oct. 9, 1909
Bradley, Harold R.....	Wetaskiwin	1176	Nov. 5, 1909
Barley, Jack E.....	Edmonton	1181	Nov. 16, 1909
Burness, Hy.....	Edmonton	1191	Jan. 10, 1910
Bouyea, Arthur.....	Calgary	1193	Feb. 3, 1910
Ferwick, Albert E.....	Red Deer	1196	Mar. 4, 1910
Beamer, Frank A.....	Calgary	1203	Mar. 7, 1910
Bishop, Harvey M.....	Calgary	1204	Mar. 7, 1910
Blackstock, John.....	Calgary	1205	Mar. 7, 1910
Bonnieman, Wm.....	Lethbridge	1215	Mar. 15, 1910
Buchring, Wm.....	Winnifred	1216	Mar. 15, 1910
Barbin, M. J.....	Coaldale	1217	Mar. 15, 1910
Baker, Thos. R.....	Magrath	1218	Mar. 15, 1910
Beatty, Ed. S.....	Lethbridge	1219	Mar. 15, 1910
Bryant, Arthur.....	Lethbridge	1220	Mar. 15, 1910
Brown, Thos.....	Frank	1623	Mar. 11, 1911
Baird, Sam.....	Blairmore	1625	Mar. 11, 1911
Bochnlein, Galuss J.....	Macleod	1636	Mar. 15, 1911
Buck, Herbt. W.....	Kitscoty	1302	Apr. 6, 1910
Buckler, Eric W.....	Black Diamond	1322	Apr. 8, 1910
Buck, Alphalus B.....	Okotoks	1323	Apr. 8, 1910
Brown, Archie B.....	Acme	1334	Apr. 11, 1910
Bowman, Elra.....	Halkirk	1284	Apr. 1, 1910
Bonallo, Herbt. D.....	Calgary	1381	Apr. 21, 1910
Bonallo, Keir.....	Calgary	1382	Apr. 21, 1910
Babe, Richard.....	Whitla	1391	Apr. 25, 1910
Byron, J. Hercule.....	Edmonton	1417	May 13, 1910
Barr, John.....	Calgary	1418	June 2, 1910
Bent, Wm. K.....	Coleman	1441	July 14, 1910
Brown, deWitt E.....	Bellshill	1460	Aug. 15, 1910
Bryce, Wm.....	Davisburg	1485	Sept. 6, 1910
Bree, Ernest N.....	Edmonton	1491	Sept. 13, 1910
Burton, Francois J.....	Edgerton	1492	Sept. 16, 1910
Bratvold, Oscar.....	Dina	1493	Sept. 16, 1910
Barstad, Sanders E.....	Lee Park	1494	Sept. 16, 1910
Brattell, Jas. E.....	Calgary	1520	Sept. 23, 1910
Brown, Geo. J.....	Granum	1539	Oct. 3, 1910
Brubaker, Jonas.....	Mayton	1551	Oct. 17, 1910
Barrett, Alfred.....	Ponoka	1556	Oct. 17, 1910
Burton, Fredk. Wm.....	Strathcona	1559	Oct. 19, 1910
Brown, Fredk. H.....	Medicine Hat	1563	Oct. 20, 1910
Brown, Robt.....	Lundbreck	1575	Oct. 20, 1910
Bradley, Harold.....	Bassano	1579	Nov. 14, 1910
Byers, Elmer L.....	New Dayton	1858	June 20, 1912
		1583	Nov. 17, 1910
Bailey, Evans.....	Coleman	1776	Apr. 24, 1911
		1584	Nov. 17, 1910
Bridge, Ray C.....	Calgary	1590	Dec. 8, 1910
Borrows, Wm.....	Lethbridge	1591	Dec. 8, 1910
Bond, Newton.....	Mannville	1593	Dec. 10, 1910
Bowerman, Cliff.....	Cowley	1635	Mar. 15, 1911
Brouse, Jason W.....	Calgary	1608	June 23, 1911
Bergman, Jos. A.....	Lethbridge	1610	Mar. 7, 1911
Bennett, Fred. C.....	Hillcrest	2019	Dec. 22, 1911
Brubaker, Isaac.....	Airdrie	1646	Mar. 20, 1911
Brown, Jno. E.....	Calgary	1647	Mar. 20, 1911
Bye, Martin.....	Lillico	1670	Mar. 24, 1911
Bullman, Jno. E.....	Warner	1685	Mar. 29, 1911
Berrigan, Steve.....	Bassano	1671	Apr. 19, 1911
Brougham, Wm. J.....	Calgary	1762	Apr. 19, 1911

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Bennifield, Jno. G.....	Rosyth	1713	Apr. 5, 1911
Broahen, Wm. H.....	Medicine Hat	1731	Apr. 7, 1911
Ballew, Geo. L.....	Medicine Hat	1750	Apr. 15, 1911
Baumbach, Jacob I.....	Irvine	1751	Apr. 15, 1911
Burnett, Elmer.....	Taber	1777	Apr. 24, 1911
Braumberger, Fred C.....	Berseker	1801	May 6, 1911
Bodard, Alcide.....	Edmonton	1812	May 18, 1911
Barnes, Jos.....	Bassano	1817	May 20, 1911
Bell, John F.....	Lethbridge	1825	May 26, 1911
Berg, Carl M.....	Calgary	1848	June 13, 1911
Bradshaw, R. Davis.....	Edmonton	1868	June 21, 1911
Bennett, Wm. D.....	Strathmore	1879	July 15, 1911
Bowler, Herbert A.....	Edmonton	1888	Aug. 16, 1911
Branning, L. E.....	Bow Island	1906	Aug. 24, 1911
Burns, Robt. W.....	Holmglen	1926	Sept. 27, 1911
Bartman, Geo. V.....	Castor	1927	Sept. 7, 1911
Butters, Hy. G.....	Airdrie	1931	Sept. 7, 1911
Bowen, Robt.....	Strathcona	1953	Sept. 9, 1911
Baiers, Peter.....	Edmonton	1963	Oct. 18, 1911
Boler, Thos. A.....	Keoma	1967	Oct. 20, 1911
Blades, Geo.....	Stirlingville	1968	Oct. 20, 1911
Braithwaite, Harry.....	Lethbridge	1975	Oct. 24, 1911
Blake, Jas. H.....	Calgary	2005	Dec. 8, 1911
Brennan, Fred.....	Edson	2007	Dec. 12, 1911
Currie, L.	Strathcona	*23	Oct. 9, 1899
Cameron, John.....	Edmonton	*25	Oct. 9, 1899
Carscadden, F. W.....	Strathcona	*45	Mar. 7, 1900
Clink, Geo. J.....	Lacombe	*115	Dec. 31, 1900
Campbell, Michel.....	Canmore	*141	May 1906
Cruikshank, Chas.....	Red Deer	*186	Dec. 18, 1901
Clauson, John.....	Red Deer	*231	Apr. 23, 1902
Currie, Wm.....	Medicine Hat	*256	Aug. 18, 1902
Currie, Arch'd.....	Medicine Hat	*406	Aug. 23, 1903
Calhoun, Culver.....	Calgary	*488	Mar. 14, 1904
Curtis, W. W.....	Carstairs	*551	Dec. 20, 1904
Coulter, Frank.....	Edmonton	*528	Apr. 18, 1904
Cunningham, J. E.....	Ellerslie	*529	Apr. 18, 1904
Clark, W. A.....	Edmonton	*530	Apr. 18, 1904
Charlette, Clifford.....	Beaumont	*634	Oct. 15, 1904
Cote, Jos.....	Beaumont	*637	Oct. 15, 1904
Crichton, David O.....	Lethbridge (dup.)	*59	Dec. 2, 1905
Carpenter, David.....	Pincher Creek	*679	Dec. 9, 1904
Cummins, Walter J. C.....	Calgary	*743	Mar. 16, 1905
Colter, Chas.....	Medicine Hat	*860	June 14, 1905
Converse, E.....	Ponoka	55	Nov. 16, 1905
Campou, Denis.....	St. Albert	82	Mar. 26, 1906
Clausen, Daniel.....	Evarts	106	Apr. 24, 1906
Cartwright, Geo.....	Calgary	116	Apr. 30, 1906
Cooper, Wm. S.....	Calgary	126	Apr. 30, 1906
Craig, James T.....	Edmonton	144	May 29, 1906
Colwell, Frank L.....	Didsbury	152	May 31, 1906
Craig, Mert E.....	Markerville	158	May 31, 1906
Clark, Jas. S.....	Taber	172	Aug. 11, 1906
Clark, O. S.....	Meadow Creek	1087	Oct. 20, 1909
Carcaden, Arthur.....	Nanton	194	Aug. 13, 1906
Charboneau, Len.....	Fort Saskatchewan	213	Sept. 13, 1906
Camfield, Ernest L.....	Stettler	229	Sept. 20, 1906
Chabot, Jos.....	Edmonton	235	Sept. 20, 1906
Coghill, Albert.....	Red Deer	239	Sept. 27, 1906

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NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Cummings, Wm. J.....	Bentley	244	Sept. 27, 1906
Curtis, Homer G.....	Edmonton	265	Apr. 29, 1907
Commeysne, Florent.....	Edmonton	268	Apr. 29, 1907
Campbell, Jas. H.....	Edmonton	282	May 15, 1907
Code, Jas. A.....	Red Deer	296	May 20, 1907
Campbell, Johnson.....	Innisfail	317	May 29, 1907
Collard, Chas. D.....	Mundare	332	May 31, 1907
Cosgrove, Jas. McA.....	Calgary	341	June 4, 1907
Carter, John R.....	Morningside	368	June 7, 1907
Cox, John.....	Stettler	369	June 7, 1907
Cunningham, Orvill D.....	Vegreville	395	June 14, 1907
Cunningham, Wilber R.....	Bawlf	403	June 14, 1907
Campbell, Benj. F.....	Edmonton	405	June 14, 1907
Clark, Herbert.....	Strathcona	418	June 14, 1907
Coates, Robt. A.	Cochrane	441	June 29, 1907
Caplin, Fred C.....	Huntsville	467	July 15, 1907
Charters, Ed. J.....	Claresholm	469	July 15, 1907
Clemens, Pater F.....	Stettler	531	Oct. 28, 1907
Crego, W. E.....	Lacombe	537	Oct. 28, 1907
Cook, Wm. D.....	Lamerton	565	Feb. 27, 1908
Culp, Geo. W.....	Spring Coulee	630	Apr. 9, 1908
Cook, Walter B.....	Medicine Hat	659	Apr. 27, 1908
Cutting, Francis R.....	Vermilion	676	Apr. 27, 1908
Chambers, John.....	Lloydminster	710	May 18, 1908
Castian, Desire.....	Cardiff	774	Sept. 18, 1908
Collard, Richard R.....	Edmonton	775	Sept. 18, 1908
Coburn, Alex. F.....	Daugh	787	Sept. 21, 1908
Cotterall, John.....	Calgary	798	Sept. 22, 1908
Clark, Tom.....	Cochrane	799	Sept. 22, 1908
Carrow, Jos. B.....	Calgary	800	Sept. 22, 1908
Cull, Cecil.....	Vegreville	813	Sept. 28, 1908
Challenger, Alf. E.....	Edgerton	814	Sept. 28, 1908
Courtright, Leo.....	Maughan	815	Sept. 28, 1908
Carriere, Arthur.....	High River	825	Oct. 2, 1908
Cody, Wm. H.....	High River	826	Oct. 2, 1908
Cousins, Bert.....	High River	827	Oct. 2, 1908
Cousins, Walter.....	High River	828	Oct. 2, 1908
Cameron, Geo. M.....	Calgary	861	Oct. 10, 1908
Cleave, Geo. M.....	Vegreville	865	Oct. 27, 1908
Coffman, Robt.....	Frank	868	Nov. 5, 1908
Curey, Wm.....	Bowville	892	Mar. 24, 1909
Conibear, Wm. N.....	Lethbridge	893	Mar. 24, 1909
Carlson, Carl G.....	Didsbury	908	Mar. 26, 1909
Canton, Jules.....	Edmonton	939	Apr. 3, 1909
Chester, Thos. W.....	Macleod	952	Apr. 7, 1909
Christian, Wm. M.....	Vermilion	980	Apr. 20, 1909
Cleven, Nels T.....	Killam	995	Apr. 23, 1909
Court, Wm. E.....	The Gap	1019	Apr. 28, 1909
Crews, Waldan.....	Medicine Hat	1048	May 1, 1909
Cathro, Aylmer G.....	Lethbridge	1170	Oct. 9, 1909
Cowell, Robt. J.....	Edmonton	1062	Oct. 21, 1909
Chalmers, John.....	Coleman	1110	Sept. 18, 1909
Cartwright, Walter.....	Frank	1111	Sept. 18, 1909
Cotton, Samuel J.....	Coleman	1112	Sept. 18, 1909
Crerar, James.....	Edmonton	1179	Nov. 16, 1909
Cuddy, Andrew S.....	Hillend	1197	Mar. 3, 1910
Czarkaski, Antonio.....	Edmonton	1202	Mar. 5, 1910
Campbell, John Chas.	Taber	1221	Mar. 15, 1910
Cimoline, Antonio.....	Lille	1248	Mar. 21, 1910
Callahan, Jos.....	Pincher Creek	1258	Mar. 22, 1910

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Cridland, Walter.....	Summerview	1259	Mar. 22, 1910
Cook, Marshall S.....	Pincher Creek	2014	Dec. 19, 1911
Curtis, Claude C.....	Macleod	1281	Mar. 30, 1910
Carroll, Thos. C. P.....	Vermilion	1303	Apr. 6, 1910
Clay, Elmer.....	Paradise Valley	1304	Apr. 6, 1910
Cleophas, Leif M.....	Coaldale	1313	Apr. 7, 1910
Cady, Lynn.....	Edmonton	1345	Apr. 13, 1910
Cheyne, Jas.....	Edmonton	1405	May 17, 1910
Callfas, Henry.....	Edmonton	1442	July 14, 1910
Cutlack, Percy	Cowley	1469	Aug. 31, 1910
Cook, Delmer E.....	Innisfail	1513	Sept. 21, 1910
Cameron, Jas. D.....	Bassano	1521	Sept. 23, 1910
Clennin, Samuel.....	Bawlf	1541	Oct. 7, 1910
Candlish, Wm.....	North Edmonton	1560	Oct. 19, 1910
Crawford, Robt.....	Barnhill	1564	Oct. 20, 1910
Campbell, Hugh J.	Calgary	1578	Oct. 21, 1910
Clark, Gordon	Strathcona	1581	Nov. 15, 1910
Cale, Art. Wm.....	Lethbridge	1611	Mar. 7, 1911
Chapman, Thos.....	Lethbridge	1612	Mar. 7, 1911
Chadwick, Emml.....	Calgary	1648	Mar. 20, 1911
Czerniawski, Mike.....	Vegreville	1664	Mar. 22, 1911
Cary, Belbert.....	Stettler	1671	Mar. 24, 1911
Campbell, Lewis A.....	Warner	1686	Mar. 29, 1911
Campbell, Benj.....	Warner	1687	Mar. 29, 1911
Corlett, Wm. Ed.....	Edmonton	1768	Apr. 21, 1911
Coffee, Clinton.....	Tide Lake	1732	Apr. 10, 1911
Coyle, Ed. S.....	Nanton	1763	Apr. 19, 1911
Christian, Neal.....	Magrath	1778	Apr. 24, 1911
Cox, Orville.....	Kesma	1802	May 6, 1911
Cleminson, Jer.....	Calgary	1818	May 20, 1911
Cleminson, Wm.....	Calgary	1819	May 20, 1911
Caveny, Howard.....	Stavely	1859	June 20, 1911
Clock, Alf. L.....	River Bow	1860	June 20, 1911
Call, Hubert L.....	Wetaskiwin	1870	July 6, 1911
Crinion, Bert.....	Sundial	1875	July 13, 1911
Cromer, Walter.....	Edmonton	1889	Aug. 16, 1911
Chatvaire, Jean.....	Edmonton	1890	Aug. 16, 1911
Cameron, Frank A.....	Calgary	1897	Aug. 22, 1911
Carlson, Gus A.....	Battle River	1964	Oct. 18, 1911
Carney, Wm. C.....	Nanton	1969	Oct. 20, 1911
Caron, Alphonse	Riviere Qu Barre	1985	Oct. 25, 1911
Cowe, George.....	Edmonton	1988	Nov. 10, 1911
Cook, Wm. R.....	Taber	1997	Nov. 17, 1911
Delop, Thos.....	Frank	*293	Sept. 30, 1902
Dobbs, F. M.	Iowalta	*515	Apr. 18, 1904
Druar, S. P.....	Riviere Qui Barre	*532	Apr. 18, 1904
Dubuc, Emile.....	Morinville	*551	May 26, 1904
Davis, Henry E.....	Didsbury	*752	Mar. 24, 1905
Davie, Alvin A.....	Calgary	*846	Mar. 26, 1905
Dickson, Jas.....	Blairmore	6	Sept. 16, 1905
Dowsett, Nat.....	Frank	516	Oct. 22, 1907
Dye, Jas. E.....	Ponoka	33	Sept. 16, 1905
Deisting, C. G.....	Duhamel	54	Nov. 3, 1905
Dowling, Nelson.....	Edmonton	90	Mar. 11, 1906
Devillard, Louis.....	Edmonton	89	Mar. 11, 1906
Drader, Ernest.....	Lacombe	112	Apr. 25, 1906
Dawes, Albert A.....	High River	121	Apr. 30, 1906
Davis, John B.....	Edmonton	1183	Nov. 27, 1909
Dickson, Wm. A.....	Medicine Hat	167	Aug. 11, 1906
Dickens, Chas.....	Lille	183	Aug. 13, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Dance, Walter H.....	Innisfail	293	May 20, 1907
Doolan, John T.....	Fort Saskatchewan	335	May 31, 1907
Doyle, John L.....	Langdon	349	June 4, 1907
Davidson, Peter A.....	Calgary	358	June 4, 1907
Drewes, H. F. W.....	Mayville	373	June 7, 1907
Davidson, Andrew C.....	Lacombe	377	June 7, 1907
Dersch, Anton L.....	Leavings	451	July 15, 1907
Dobbie, Alex.....	Pincher Creek	929	Apr. 1, 1909
Drury, Wm.....	Taber	552	Dec. 26, 1907
Drinnon, Robt. McC.....	Calgary	586	Mar. 23, 1908
Deakin, Thos.....	Hillcrest	606	Apr. 8, 1908
Dickson, John.....	Red Deer	640	Apr. 14, 1908
Dehning, Louis H.....	Tapscott	649	Apr. 15, 1908
Davis, Geo. O.	Crossfield	680	May 1, 1908
Dowsett, Alfred.....	North Bank	697	May 7, 1908
Davis, Chris. A.....	Lavoy	724	May 18, 1908
Dennis, Glen.....	Vegreville	726	May 18, 1908
Denner, Jos.....	Lesser Slave Lake	737	Aug. 6, 1908
Dunbar, Frank G.....	Three Hills	756	Sept. 8, 1908
Dickan, Chas. J. H.....	Didsbury	760	Sept. 11, 1908
Davis, Clarence.....	Stavely	829	Oct. 2, 1908
Davis, Christopher.....	Lethbridge	846	Oct. 6, 1908
Dingee, Harry.....	Lethbridge	867	Oct. 29, 1908
Dangerfield, James A.....	Olds	490	Dec. 30, 1909
Donnelly, Henry J.....	Wetaskiwin	*784	Mar. 27, 1905
Dawson, John C.....	Mountain View	455	July 15, 1907
Denson, Alex. R.....	Bankhead	550	Dec. 5, 1907
Duffey, Alfred.....	Lethbridge	895	Mar. 24, 1909
Bluski, John.....	Sundial	897	Mar. 24, 1909
Deugan, Hiram W.....	Coleman	910	Mar. 30, 1909
Darimont Jas.....	Edmonton	942	Apr. 3, 1909
Dickan, Ferd W.....	Ponoka	974	Apr. 17, 1909
Dupmeyer, Jos.....	Edmonton	981	Apr. 20, 1909
Davis, Geo. W.....	Flagstaff	996	Apr. 22, 1909
Duncan, Alexr. D.....	Edmonton	1063	May 21, 1909
Dixon, Wm.....	Calgary	1117	Sept. 21, 1909
Dickie, Samuel	Lethbridge	1157	Oct. 5, 1909
Davey, John B.....	Calgary	1206	Mar. 7, 1910
Donnelly, James	Bellevue	1565	Oct. 20, 1910
Dawson Wm.....	Macleod	1267	Mar. 28, 1910
Denike, Geo. H.....	Lacombe	1285	Apr. 1, 1910
Davy, Stewart C.....	Calgary	1324	Apr. 8, 1910
Davidson, Jas. F.....	Calgary	1325	Apr. 8, 1910
David, J. R.....	Vegreville	1696	Mar. 13, 1911
Darrow, Mason.....	Taber	1368	Apr. 15, 1910
Dainger, Orlando.....	Stirling	1369	Apr. 15, 1910
Dunn, Robt. J.....	Calgary	1383	Apr. 21, 1910
Davidson, Eric.....	Calgary	1384	Apr. 21, 1910
Downing Frank H.....	Bassano	1385	Apr. 19, 1910
Dixon, Wm.....	Calgary	1415	May 23, 1910
Dow, Alexr.....	Lethbridge	1477	Sept. 1, 1910
Desler, Geo. C.....	Nanton	1486	Sept. 6, 1910
Dredge, Wm. H.....	Edmonton	1495	Sept. 16, 1910
Downing, Augustus.....	Calgary	1622	Sept. 23, 1910
Dow, Jas.....	Lethbridge	1613	Mar. 7, 1911
Dixon, Geo. W.....	Macleod	1638	Mar. 15, 1911
Davis, Wallace H.....	Calgary	1649	Mar. 20, 1911
Dearden, Simon.....	Three Hills	1650	Mar. 20, 1911
De Wolfe, Wilburn.....	Sanderville	1672	Mar. 24, 1911
Dewar, Alex. K.....	Fort Saskatchewan	1769	Apr. 21, 1911

*Indicates Certificate was granted by North-West Territories

**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Dankwerth, Wm. L.....	Gleichen	1733	Apr. 10, 1911
Desler, Hy. C.....	Stavely	1779	Apr. 24, 1911
Dunn, Chas. W.....	Calgary	1803	May 6, 1911
Downham, Mark.....	Calgary	1804	May 6, 1911
Davison, H. Y.....	Rexboro	1813	May 18, 1911
Damman, Wm.....	New Dayton	1826	May 26, 1911
Davis, Wm. A.....	Edmonton	1895	Aug. 18, 1911
Doten, Earl B.	Calgary	1932	Sept. 8, 1911
DeVore, Harley G.....	Edmonton	1960	Sept. 30, 1911
Dow, Gavin M.....	Lethbride	1998	Nov. 17, 1911
Davis, Alfred J.....	Lethbride	2015	Dec. 19, 1911
Edgerton, Guy.....	Red Deer	*184	Dec. 18, 1901
Evarts, Lucius P.....	Calgary	*394	Aug. 14, 1903
Evarts, Philo.....	Banff	*490	Mar. 14, 1904
Edmonds, Thos. J.....	Edmonton	*803	Mar. 31, 1905
Enbody, Chas. S.....	Calgary	125	Apr. 30, 1906
Ennes, John Jas.....	Innisfail	147	May 31, 1906
Ewart, David.....	Strathcona	219	Sept. 13, 1906
Endersby, Jos. P.....	Medicine Hat	261	Apr. 6, 1907
Engen, Anton A.....	Sunny Slope	311	May 29, 1907
Eggenberger, John K.....	Coalbanks	327	May 29, 1907
Elliott, John.....	Calgary	353	June 4, 1907
East, Alfred E.....	Strathcona	1436	July 7, 1910
Ensminger, Louis C.....	Lacombe	400	June 14, 1907
Erratt, Wm. H.....	Nanton	419	June 19, 1907
Emmerson, Robt.....	Bellevue	911	Mar. 30, 1907
Ellis, John W.....	Edmonton	492	Oct. 15, 1907
Elliott, Henry N.....	Carstairs	536	Oct. 28, 1907
Euard, Arthur W.....	Calgary	556	Jan. 20, 1908
Elmhirst, Jos. A.....	High River	584	Mar. 23, 1908
Eiseman, Jos.....	Peace River Crossing ..	738	Aug. 6, 1908
Ellison, O. H.....	Strome	783	Sept. 18, 1908
Endersby, John Geo.....	Lethbridge	10	Sept. 16, 1905
Elford, Albert.....	Grassy Lake	1009	Apr. 25, 1909
Edwards, Orien.....	Cheadle	1020	Apr. 28, 1909
Emmericks, John J.....	Gleichen	1361	June 20, 1911
Evans, John B.....	Canmore	1022	Apr. 28, 1909
East, Neal.....	Edmonton	1083	July 9, 1909
Elder, Chas. G.....	Calgary	1118	Sept. 21, 1909
Entwistle, Chas. H.....	Edmonton	1145	Sept. 24, 1909
Elliott, Thos.....	Cardiff	1182	Nov. 24, 1909
Emrich, Wm.....	Innisfail	1198	Mar. 4, 1910
Enzenauer, Peter.....	Loma	1263	Mar. 24, 1910
Earl, Edgar G.....	Norton	1392	Apr. 25, 1910
Egger, Christian.....	Bowville	1411	May 21, 1910
Ells, Fredk. B.....	Coleman	1422	June 11, 1910
Erickson, Eric A.....	Milk River	1423	June 11, 1910
Enyeart, Chas. F.....	New Dayton	1566	Oct. 20, 1910
Evans, Geo. W.....	Magrath	1314	Apr. 7, 1910
Emde, Wm. J.....	Coaldale	1614	Mar. 7, 1911
Eld, Gust.....	Parkland	1651	Mar. 20, 1911
Eshpeter, Hy.....	Spring Lake	1714	Apr. 5, 1911
Ensign, Elmer G.....	Barnwell	1780	Apr. 24, 1911
Edwards, Jas. M.....	Calgary	1820	May 20, 1911
Evanson, Ed. M.....	Raymond	1876	July 13, 1911
Earl, Alex.....	Strathcona	1891	Aug. 16, 1911
Evans, Earl L.....	Leslieville	1928	Sept. 7, 1911
Evans, Thos. O.....	Lille	1999	Nov. 17, 1911
Flack, Samuel.....	Red Deer	*211	Dec. 18, 1901
Findlay, Jas. F.....	Leduc	*194	Dec. 18, 1901

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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<i>Third Class—Continued</i>			
Fair, Francis Wm.....	Medicine Hat	*257	Aug. 18, 1902
Foster, Wm. W.....	Red Deer	*370	May 13, 1903
Fluker, W. R.....	Fort Saskatchewan	*545	Apr. 18, 1904
Flett, Andrew R.....	Calgary	*744	Mar. 16, 1905
Farren, Edgar.....	Evarts	*777	Mar. 24, 1905
Fowler, Wm. H.....	Edmonton	*800	Mar. 31, 1905
Flintoff, Walter.....	Partridge Hill	*816	Apr. 14, 1905
Ferguson, Ernest G.....	Fort Saskatchewan	944	Apr. 5, 1909
Fairman, Chas.....	Medicine Hat	85	Apr. 11, 1906
Frizzelle, Jas. I.....	Lacombe	104	Apr. 24, 1906
Fullerton, Thos. W.....	Calgary	122	Apr. 30, 1906
Fordyce, J.....	Bowden	156	May 31, 1906
Faltainsley, M.....	Morinville	208	Sept. 13, 1906
Fitzsimmons, G. E.....	Calgary	237	Sept. 24, 1906
Falkenberg, Fred. D.....	Saron	275	May 15, 1907
Forster, Michael.....	Leduc	278	May 15, 1907
Fortune, Geo.....	Trochu Valley	301	May 23, 1907
Fryett, Arthur J.....	Neapolis	312	May 29, 1907
Frieson, J. F.....	Sunny Slope	313	May 29, 1907
Fike, Daniel K.....	Crossfield	320	May 29, 1907
Fuller, Albert.....	Calgary	357	June 4, 1907
Fox, Henry.....	Olds	380	June 10, 1907
Findley, Thos.....	High River	429	June 19, 1907
Fricke, Chas. L.....	Erskine	541	Oct. 28, 1907
Fauver, A. E.....	Lamerton	542	Oct. 28, 1907
Freeze, Benj. H.....	Edmonton	590	Apr. 2, 1908
Fried, Vincent J.....	Granum	598	Apr. 2, 1908
		1643	Mar. 15, 1911
Firth, Hedrick.....	Lethbridge	603	Apr. 8, 1908
Fowler, Dan T.....	Magrath	614	Apr. 8, 1908
Friesen, Peter.....	Didsbury	652	Apr. 15, 1908
Fenner, John S.....	Camrose	718	May 18, 1908
Farquhar, Alex. W.....	Calgary	802	Sept. 22, 1908
Fortin, Chas. C.....	Morinville	876	Jan. 18, 1909
Forland, Ole.....	Lethbridge	900	Mar. 24, 1909
Feargue, Francis J.....	Pincher Creek	930	Apr. 1, 1909
Forrest, Jas. O.....	Lacombe	951	Apr. 5, 1909
Fowle, Wm.....	Blayney	967	Apr. 16, 1909
Forslin, John.....	New Dayton	989	Apr. 20, 1909
Falardean, Aaron J.....	Taber	1010	Apr. 25, 1909
Francis, Jos.....	Taber	1011	Apr. 25, 1909
		1717	Apr. 5, 1911
Fullerton, Daniel W.....	Taber	1012	Apr. 25, 1909
Fielding, Jas.....	Lethbridge	1434	June 25, 1910
Farrend, Chas. H.....	Barnwell	1152	Sept. 28, 1909
Finstad, Ole A.....	Claresholm	1153	Sept. 28, 1909
Fansher, Fred.....	Lamont	1159	Sept. 29, 1909
Fedun, John.....	Mundare	1160	Sept. 29, 1909
Frey, Frank.....	Frank	1172	Oct. 11, 1909
Fairbairn, Robt.....	Vegerville	1174	Oct. 22, 1909
Fietz, Otto.....	Diamond City	1222	Mar. 15, 1910
Fisher, Bert.....	Coleman	1250	Mar. 21, 1910
Fowler, Willis L.....	High River	1261	Mar. 22, 1910
Frank, Christopher E.....	Frankburg	1264	Mar. 24, 1910
Fedoruk, Tyofi.....	Vegreville	1305	Apr. 6, 1910
Foster, Riley.....	Magrath	1357	Apr. 14, 1910
Fenton, S. A.....	Taber	1370	Apr. 15, 1910
Fletcher, John R.....	Grassy Lake	1378	Apr. 19, 1910
Francis, Wm.....	Carlstadt	1393	Apr. 25, 1910
Frigon, Fred.....	Calgary	1447	July 15, 1910

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Fike, Jesse J.	Barnwell	1511	Sept. 21, 1910
Forey, John Jos.	Big Valley	1514	Sept. 21, 1910
Forster, Jas.	Hillcrest	1627	Mar. 11, 1911
Firth, Wilfred.	Macleod	1637	Mar. 15, 1911
Farrell, Percy E.	Carstairs	1652	Mar. 20, 1911
Ferguson, Dugald.	Nanton	1734	Apr. 10, 1911
Frizzelle, Jinkle G.	Calgary	1735	Apr. 10, 1911
Friesen, Ger. H.	Sunny Slope	1715	Apr. 5, 1911
Ferschweiler, Jno.	Trochu	1716	Apr. 5, 1911
Flynn, Chas.	Calgary	1736	Apr. 11, 1911
Fleming, Jas.	Medicine Hat	1781	Apr. 24, 1911
Forsyth, Jas. A.	Red Deer	1798	Apr. 26, 1911
Fleming, Andrew B.	Irricana	1805	May 6, 1911
Frache, Richard.	Lethbridge	1862	June 20, 1911
Foster, Arthur C.	Calgary	1898	Aug. 22, 1911
Foughty, Clifford R.	Carlstadt	1933	Sept. 8, 1911
Forbes, John.	Edmonton	2008	Dec. 12, 1911
Freeman, Herbert B.	Edmonton	2009	Dec. 12, 1911
Gagnon, Alfred.	St. Albert	*55	May 28, 1900
Gaetz, Jas. F.	Red Deer	*226	Apr. 23, 1902
George, John.	Kamloops	*478	June 13, 1904
Giddings, Thos.	Calgary	*489	Mar. 14, 1904
Grigat, John.	Leduc	*533	Apr. 18, 1904
Goebel, H. C.	Edmonton	*543	Apr. 18, 1904
Gardner, Marques	Red Deer	*780	Mar. 24, 1905
Green, Jno.	Medicine Hat	*857	June 14, 1905
Gallup, Walter E.	Medicine Hat	*858	June 14, 1905
Grote, Frank.	Bon Accord	*890	Aug. 31, 1905
Griffen, Henry.	Stavely	11	Sept. 16, 1905
Grote, Alex. E.	Spruce Grove	65	Mar. 16, 1906
Gibeault, J. Eugene.	Morinville	70	Mar. 16, 1906
Graf, John.	Fort Saskatchewan	92	Apr. 11, 1906
Galloway, Alex.	Medicine Hat	1797	Apr. 25, 1911
Garneau, Larry.	Strathcona	224	Sept. 13, 1906
Godley, Maurice W.	Red Deer	238	Sept. 27, 1906
Grant, Farquhar.	Edmonton	267	Apr. 29, 1907
Glaspie, Ed. H.	Hurry	331	May 31, 1907
Grue, Simon T.	Camrose	394	June 14, 1907
Grove, Benj. K.	Camrose	404	June 14, 1907
Grant, Geo. F.	Lewisville	412	June 14, 1907
Galentine, Frank.	High River	434	June 19, 1907
Graves, Jas. H.	Calgary	1223	Mar. 15, 1910
Giese, Gottlieb W.	Spruce Grove	499	Oct. 15, 1907
Graham, Willard.	Crossfield	519	Oct. 24, 1907
Gwilt, Geo.	Didsbury	528	Oct. 24, 1907
Gray, John A.	Claresholm	576	Mar. 23, 1908
Gibson, Wm. H.	Coleman	601	Apr. 8, 1908
Gerrard, John.	Lundbreck	914	Mar. 30, 1909
Girber, Dan. E.	Sunny Slope	648	Apr. 4, 1908
Gillett, Geo. I.	Carstairs	681	May 1, 1908
Grundy, Jas.	Bowden	684	May 1, 1908
Greene, Geo. A.	Edmonton	708	May 18, 1908
Gustafson, Ivan	Leduc	1375	Apr. 19, 1910
Gibbs, Jas. A.	Delnorte	715	May 18, 1908
Gray, Wm. J.	Fort Vermillion	739	Aug. 6, 1908
George, Wm. S.	Peace River Crossing	740	Aug. 6, 1908
Graham, Jno. M.	Athabasca Landing	746	Aug. 13, 1908
Gotobed B.	Strathcona	776	Sept. 18, 1908
Gale, Sydney H.	Calgary	791	Sept. 24, 1908
Gillies, Wm.	Strathcona	872	Dec. 23, 1908

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NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Goodfellow, Jas.	Calgary	118	Apr. 30, 1906
Goeson, Geo. J.	Granum	912	Mar. 30, 1909
Gilmore, David.	Frank	913	Mar. 30, 1909
Gibb, David T.	Raymond	990	Apr. 20, 1909
Going, Ernest M.	Mountain View	1006	Apr. 25, 1909
Gusa, Herman E.	Calgary	1013	Apr. 25, 1909
Grobe, Chas. W.	Shepard	1023	Apr. 28, 1909
Geertruyden, H. Van.	Edmonton	1086	July 25, 1909
Gilmore, Chas. R.	Red Willow	1091	Aug. 27, 1909
Gullekson, Edwin L.	Wetaskiwin	1195	Sept. 7, 1909
Guertin, Jos. E.	Bowville	1101	Sept. 15, 1909
Gowdy, Wm. T.	Airdrie	1119	Sept. 21, 1909
Green, Jay H.	Brant	1120	Sept. 21, 1909
Grimoldby, Walter H.	Strathcona	1161	Sept. 29, 1909
Gobell, Edward.	Royal View	1224	Mar. 14, 1910
Grigat, John, Jr.	Leduc	1286	Apr. 1, 1910
Gunderson, Ingval J.	Warner	1360	Apr. 14, 1910
Gruidl, Stephen.	Manfred	1404	May 17, 1910
Goodwin, Wm.	Strathcona	1448	July 15, 1910
Gerrie, Geo.	Oxville	1496	Sept. 16, 1910
Gibbons, Geo. A. R.	Battenburg	1497	Sept. 16, 1910
Giese, Daniel.	Spruce Grove	1498	Sept. 16, 1910
Guess, Herbert.	Pincher Creek	1567	Oct. 20, 1910
Gosling, Fredk.	Morley	1580	Nov. 14, 1910
Gellhorn, Wilhelm.	Strathcona	1594	Dec. 20, 1910
Gilmer, Allan.	Provost	1673	Mar. 24, 1911
Gerchke, Wm.	Walsh	1752	Apr. 15, 1911
Green, Chas. L.	Calgary	1764	Apr. 19, 1911
Gross, Hy. A.	Burdette	1702	Mar. 31, 1911
Graham, Oscar J.	Grassy Lake	1703	Mar. 31, 1911
Gardner, Fred W.	Dalroy	1737	Apr. 10, 1911
Gray, Jesse L.	Macleod	1782	Apr. 24, 1911
Gunderson, Cornelius.	Warner	1827	May 26, 1911
Graham Wm. Robt.	Summerview	1828	May 26, 1911
Gray, Wallace C.	Edmonton	1844	June 9, 1911
Greenwood, Joseph	Calgary	1850	June 13, 1911
Green, Jno. Hy.	Staunton	1877	July 13, 1911
Gleaves, Geo. N.	Medicine Hat	1886	July 27, 1911
Greenwood, John.	Calgary	1899	Aug. 22, 1911
Graham, Wm. A.	Coaldale	1908	Aug. 24, 1911
Gray, Irving.	Yetwood	1909	Aug. 24, 1911
Gray, Elgin W.	Entwistle	1954	Sept. 9, 1911
Gaugner, Arthur O.	Lethbridge	1977	Oct. 24, 1911
Gray, Luke Chas.	Calgary	1992	Nov. 16, 1911
Hewer, Jesse J.	Strathcona	*24	Oct. 9, 1899
Harrold, David.	Edmonton	*54	May 28, 1900
Heffner, Frank.	Bruederheim	*92	Nov. 15, 1900
Holden, J. A.	Strathcona	*114	Dec. 31, 1900
Hober, Jno. W.	Ponoka	*214	Jan. 7, 1902
Harris, Ed. S.	Star	*327	Dec. 18, 1902
Hudson, Arthur C.	Edmonton	*330	Jan. 6, 1903
Hehsdoerfer, Jos.	Edmonton	*359	May 13, 1903
Haney, Sylvester.	Lacombe	*482	Jan. 28, 1904
Hougestol, Anton.	Wetaskiwin	*516	Apr. 18, 1904
Harrold, Jno., Jr.	Edmonton	*534	Apr. 18, 1904
Hankehadl, Edgar O.	Duhamel	*785	May 27, 1905
Hardy, Albert Wm.	Lake de May	878	Feb. 10, 1909
Henschel, August.	Strathcona	49	Sept. 23, 1905
Hart, Wm. J.	Raymond	22	Sept. 16, 1905
Hacking, Geo. A.	Magrath	23	Sept. 16, 1905

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Haybarger, Chas. A.....	Fort Saskatchewan	34	Sept. 16, 1905
Hewitt, Robt. E.....	Bon Accord	38	Sept. 18, 1905
Hays, Morion L.....	Tofield	91	Apr. 11, 1906
Headley, Henderson.....	Medicine Hat	88	Apr. 11, 1906
Higgins, Jas. A.....	Medicine Hat	87	Apr. 11, 1906
Humbke, Detriche E.....	Battle River	101	Apr. 20, 1906
Hunter, Wm. Jno.....	Fort Saskatchewan	109	Apr. 24, 1906
Hobson, Patrick J.....	Strathcona	130	May 4, 1906
Hunter, Fred H.....	Didsbury	151	May 31, 1906
Hallett, Geo. E.....	Camrose	163	July 7, 1906
Henry, Ortus.....	Claresholm	177	Aug. 13, 1906
Heighington, J. H.....	Rosenroll	1321	Apr. 7, 1910
Hammitt, J. A.....	Wetaskiwin	234	Sept. 20, 1906
Harris, A. J.....	Chipman	223	Sept. 13, 1906
Hardy, Wm. B.....	Edmonton	270	Apr. 29, 1907
Hellmers, Jno.....	Millet	276	May 15, 1907
Hitchcock, Arthur L.....	Pine Lake	292	May 20, 1907
Harris, Ed.....	Mayton	303	May 23, 1907
Hardman, Geo. S.....	Mayton	306	May 23, 1907
Hilts, Neil A.....	Didsbury	314	May 29, 1907
Huff, Wm. H.....	Crossfield	315	May 29, 1907
Harrison, David R.....	Lamont	333	May 31, 1907
Handley, J. T.....	Valley City	370	June 7, 1907
Hauser, Jno. H.....	Strome	387	June 14, 1907
Hauser, Geo. W.....	Strome	401	June 14, 1907
Halstead, Arthur L.....	Edberg	407	June 14, 1907
Hoar, Wm. J.....	Berry Bank	409	June 14, 1907
Hartt, Guy C.....	High River	421	June 19, 1907
Herron, Jno. A.....	Nanton	915	May 30, 1909
Honan, Jno. E.....	High River	431	June 19, 1907
Hislop, Thos. L.....	Taber	443	June 15, 1907
Havervold, Robt. L.....	Lethbridge	462	July 15, 1907
Henderson, Clifton C.....	Elinor	470	July 15, 1907
Heitman, Herman.....	Pincher Creek	473	July 15, 1907
Hicks, Ephraim B.....	Raymond	474	July 15, 1907
Harding, Norris H.....	Lethbridge	848	Oct. 6, 1908
Hallman, Sydney E.....	Carstairs	488	Oct. 12, 1907
Horne, Ned.....	Edmonton	506	Oct. 15, 1907
Healy, Jos.....	Bankhead	548	Dec. 5, 1907
Henderson, Jno. H.....	Taber	554	Dec. 26, 1907
Harris, Geo. A.....	Calgary	555	Jan. 20, 1908
Horwood, Walter E.....	Calgary	560	Jan. 20, 1908
Hyde, Geo. T.....	High River	581	Mar. 23, 1908
Hutchings, Percy J.....	Edmonton	916	Mar. 30, 1909
Howard, Sam.....	Frank	613	Apr. 8, 1908
Hills, Wm. C.....	Hillcrest	624	Apr. 9, 1908
Hilts, Simon W.....	Didsbury	654	Apr. 15, 1908
Hoy, Walter M.....	Medicine Hat	665	Apr. 27, 1908
Haskins, Martin.....	Vermilion	670	Apr. 27, 1908
Hayes, Fred J.....	Vermilion	671	Apr. 27, 1908
Hall, Richard.....	Lloydminster	673	Apr. 27, 1908
Higginson, R. R.....	Kitscoty	677	Apr. 27, 1908
Holgate, Jno.....	Airdrie	685	May 1, 1908
Haselwood, Alfred W.....	Rosenroll	701	May 7, 1908
Hunting, Humphrey W.....	Lacombe	769	Sept. 14, 1908
Holbrook, Peter E.....	Stettler	770	Sept. 14, 1908
Hanlan, W. J.....	Edmonton	777	Sept. 18, 1908
Hallvarson, Peter W.....	Black Diamond	792	Sept. 22, 1908
Haeflin, Mark E.....	Exshaw	793	Sept. 22, 1908
Henderson, Alex.....	Granum	830	Oct. 2, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class--Continued</i>			
Hendrickson, Jno.....	Claresholm	831	Oct. 2, 1908
Henderson, Robt.....	Lethbridge	958	Apr. 9, 1909
Hatfield, Chas. L.....	Blayney	968	Apr. 16, 1909
Hansen, Peter C.....	Cleversville	977	Apr. 20, 1909
Hultgren, Victor.....	Stavely	987	Apr. 20, 1909
Horne, Geo., Jr.....	Edmonton	982	Apr. 20, 1909
Hall, David N.....	Grassy Lake	993	Apr. 30, 1909
Honeywell, Sid. C.....	Sedgewick	997	Apr. 22, 1909
Hough Oscar.....	Camrose	998	Apr. 22, 1909
Haugen, Peter M.....	Bardo	999	Apr. 22, 1909
Hardy, Herbt. J.....	Exshaw	1024	Apr. 28, 1909
Henderson, A. J.....	Langdon	1025	Apr. 28, 1909
Hauptert, John.....	Lewisville	1044	Apr. 30, 1909
Hunter, Jas. S.....	Edmonton	1064	May 21, 1909
Hendrie, Jas. M.....	Lethbridge	1102	Sept. 15, 1909
Hermann, Chas.....	Queenstown	1121	Sept. 21, 1909
Hutchinson, Fred.....	High River	1122	Sept. 21, 1909
Herrick, Oscar F.....	Eyremore	1123	Sept. 21, 1909
Hiney, Allan.....	Cochrane	1124	Sept. 21, 1909
Hatfield, Wilmer B.....	Lethbridge	1178	Nov. 13, 1909
Hawkes, Wm.....	Edmonton	1185	Dec. 4, 1909
Heighs, Geo., Jr.....	Iron Springs	1225	Mar. 15, 1910
Hewitt, Jas. R.....	Cowley	1251	Mar. 21, 1910
Homer, Samuel C.....	Claresholm	1275	Mar. 29, 1910
Hazelwood, Ernest Wm.....	Bittern Lake	1287	Apr. 1, 1910
Hauser, Anthony B.....	Strome	1288	Apr. 1, 1910
Hicks, Frank I.....	Raymond	1315	Apr. 7, 1910
Harris, Thos. Wm.....	Raymond	1316	Apr. 7, 1910
Hislop, Wilber.....	Calgary	1320	Apr. 7, 1910
Hendrickson, Edwin.....	Crossfield	1335	Apr. 11, 1910
Hickox, Wm. C.....	Cochrane	1336	Ajr. 11, 1910
Holte, Ole.....	Logan	1347	Apr. 13, 1910
Hanson, Fred.....	Viking	1348	Apr. 13, 1910
Hammer, Leo.....	Lethbridge	1358	Apr. 14, 1910
Hipp, Wm.....	Taber	1371	Apr. 15, 1910
Herrick, Weston M.....	Cleversville	1387	Apr. 22, 1910
Harder, Andrew J.....	Medicine Hat	1412	May 21, 1910
Harrold, John.....	Lethbridge	1394	Apr. 25, 1910
Hamilton, Walter.....	Olds	1419	June 9, 1910
Hamilton, John.....	Pincher Creek	1424	June 11, 1910
Hughes, Robt. Samuel.....	Cardiff	1443	July 14, 1910
Hall, Jesse D.....	Stirling	1466	Aug. 30, 1910
Horn, Peter	Lethbridge	1467	Aug. 30, 1910
Horn, Wm.....	Lethbridge	1478	Sept. 1, 1910
Hansen, Arney.....	Millet	1602	Jan. 20, 1911
Hill, Geo. S.....	Edmonton	1499	Sept. 16, 1910
Harwood, Thos. R.....	Stettler	1515	Sept. 21, 1910
Hohle, John F.....	Calgary	1523	Sept. 23, 1910
Heaton, Frank.....	Edmonton	1528	Nov. 15, 1910
Holte, M. D.....	Kipp	1615	Mar. 7, 1911
Hope, George.....	Royal View	1617	Mar. 7, 1911
Heyland, Wm. N.....	Claresholm	1644	Mar. 16, 1911
Hough, Floyd G.....	Calgary	1653	Mar. 20, 1911
Halloran, Fred P.....	Strathcona	1665	Mar. 22, 1911
Harding, Thos. H.....	Edmonton	1666	Mar. 22, 1911
Hallett, John.....	Castor	1674	Mar. 24, 1911
Hanna, Robt. J.....	Stirling	1680	Mar. 28, 1911
Howorth, Chas.....	Calgary	1753	Apr. 15, 1911
Hagen, Henry.....	Battle Lake	1765	Apr. 19, 1911
Heisler, Jacob.....	Spring Lake	1718	Apr. 5, 1911

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Hennessy, Robt. G.....	Bassano	1719	Apr. 5, 1911
Horton, Frank S.....	Medicine Hat	1748	Apr. 10, 1911
Harrison, Harley.....	Lethbridge	1783	Apr. 24, 1911
Holmberg, Jno. A.....	Lucky Strike	1784	Apr. 24, 1911
Harrington, Dan. L.....	Diamond City	1829	May 26, 1911
Horton, S. B.....	Barons	1830	May 26, 1911
Hardy, Robt. W.....	Leduc	1846	June 9, 1911
Honnor, Herbert N.....	Medicine Hat	1863	June 20, 1911
Huff, W. P.....	Edmonton	1880	July 15, 1911
Haine, Sandford.....	Edmonton	1881	July 18, 1911
Harwood, Walter.....	Castor	1892	Aug. 16, 1911
Hornberger, Raymond.....	Reid Hill	1910	Aug. 24, 1911
Hango, John J.....	Red Deer	1929	Sept. 27, 1911
Henry, Wm. G.....	Calgary	1934	Sept. 8, 1911
Hunerkoch, Geo. W.....	Magrath	1941	Sept. 9, 1911
Harris, John.....	Fishburn	1942	Sept. 9, 1911
Hossier, Chas. A.....	Falkirk	1961	Oct. 18, 1911
Heighington, Frank H.....	Bittern Lake	1962	Oct. 18, 1911
Houghton, Ernest.....	Calgary	1970	Oct. 20, 1911
Harman, Frank E.....	Pincher Station	1978	Oct. 24, 1911
Hatherell, Albert.....	Suffield	1979	Oct. 24, 1911
Hanson, William.....	Spring Lake	1989	Nov. 11, 1911
Holmes, George E.....	Heichen	1993	Nov. 16, 1911
Holland, Milton C.....	Noble	2016	Dec. 19, 1911
Imeson, Geo.....	Stony Plain	*206	Dec. 18, 1901
Ibson, Clause W.....	Mewassin	*304	Mar. 31, 1905
Isaacson, Frank.....	Claresholm	191	Aug. 13, 1906
Iverson, Olaf.....	Molstad	231	Sept. 20, 1916
Isaacson, Arthur F.....	Evarts	514	Oct. 22, 1907
Isherwood, Wm.....	Calgary	588	Mar. 23, 1908
Ingram, Wm.....	Leduc	860	Oct. 7, 1908
Isaacson, Willie.....	Claresholm	969	Apr. 16, 1909
Illingworth, Jos.....	Edmonton	983	Apr. 20, 1909
Inglesby, E. C.....	Edmonton	1180	Nov. 16, 1909
Imler, Jno. C.....	Okotoks	1326	Apr. 8, 1910
Ireland, Jas. H.....	Blairmore	1629	Mar. 11, 1911
Ingram, Wesley.....	Fofield	1697	Mar. 31, 1911
Ives, Albert J.....	Grassy Lake	1704	Mar. 31, 1911
Ireland, Wm. Jas.....	Cardston	1911	Aug. 24, 1911
Jackson, Chas.....	Calgary	*66	July 19, 1900
Joyner, Chas. A.....	Bentley	*173	Oct. 2, 1901
James, Dunham D.....	Didsbury	*321	Nov. 1, 1902
Jeune, Ivan.....	Vetaskiwin	*332	Feb. 13, 1903
Jamieson, Johnston.....	Ponoka	*353	Apr. 24, 1903
Johnson, Conrid.....	Red Deer	*414	Aug. 29, 1903
Jameson, Chas. W.....	Ponoka	*644	Oct. 15, 1903
James, F. S.....	Ponoka	28	Sept. 16, 1905
Johnson, Elijah.....	Canyon	61	Dec. 29, 1905
Johnson, Ed.....	Diana	99	Apr. 20, 1906
Jenson, Louis C.....	Alix	114	Apr. 25, 1906
Jones, Jack.....	Bankhead	140	May 14, 1906
Johnson, Benj. F.....	Raymond	186	Aug. 13, 1906
Jones, Fred.....	Coleman	189	Aug. 13, 1906
Job, Chas.....	Strathcona	222	Sept. 13, 1906
Jordon, A. H.....	Edmonton	271	Apr. 22, 1907
Jesse, Ed.....	Hardisty	316	May 29, 1907
Johnson, G. Anton.....	Didsbury	328	May 31, 1907
Johanson, Henry.....	Walsh	361	June 4, 1907
Johnson, Jos.....	Medicine Hat	284	May 15, 1907
Jones, Arthur.....	Camrose	383	June 14, 1907

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Johns, Thos. L.....	Magrath	459	July 15, 1907
Jamieson, Jesse H.....	Edmonton	505	Oct. 15, 1907
Johannson, Jno. T.....	Olds	521	Oct. 24, 1907
Journey, Clyde R.....	Brant	582	Mar. 22, 1908
Jepson, Walter	Bellevue	612	Apr. 8, 1908
Johnston, Percy W.....	Edmonton	713	May 18, 1908
Johnson, Elmer.....	Daysland	716	May 18, 1908
Julien, Eugene.....	South Bend	720	May 18, 1908
Johnson, Chas. J.....	Stavely	832	Oct. 2, 1908
Jenson, Ole E.....	Seven Persons	833	Oct. 2, 1908
Jones, Isaac.....	Raymond	849	Oct. 6, 1908
James, John E.....	Taber	850	Oct. 6, 1908
Johnson, Alfred.....	Hillcrest	917	Mar. 30, 1909
Jackson, Thos. C.....	Stettler	962	Apr. 13, 1909
James, Griffith L.....	Ponoka	975	Apr. 17, 1909
Jones, Robert.....	Lethbridge	1103	Sept. 15, 1909
Jermaine, Stephen.....	Andrew	1038	Apr. 29, 1909
Johnson, W. E.....	Lethbridge	1058	May 4, 1909
Jones, Arthur W.....	Edmonton	1060	May 20, 1909
Johnson, John G.....	Millet	1065	May 21, 1909
Jones, Wm. Daniel.....	Edmonton	1066	May 21, 1909
Johnson, Chas. J.....	Onoway	1192	Jan. 10, 1910
Jones, Wm. C.....	Bow Island	1226	Mar. 25, 1910
Jeanclaude, Leopold.....	Edmonton	1306	Apr. 6, 1910
Jackson, Roy E.....	Queenstown	1327	Apr. 8, 1910
Johnston, Albert J.....	Calgary	1337	Apr. 11, 1910
Jordan, Glen L.....	Banff	1338	Apr. 11, 1910
Jones, Albert E.....	Rosebud Creek	1407	Apr. 19, 1910
Johnsrud, Alfred.....	Harmattan	1552	Oct. 17, 1910
Johnson, Jas. F., Jr.....	Barnwell	1568	Oct. 20, 1910
Jones, Samuel.....	Lethbridge	1618	Mar. 7, 1911
James, Reginald.....	Coleman	1630	Mar. 11, 1911
Jensen, Rasmus.....	Raymond	1681	Mar. 28, 1911
Johnson, Wm. F.....	Walsh	2021	Dec. 27, 1911
Jones, Wm. N.....	Edmonton	1814	Apr. 18, 1911
Jenkins, Jas.....	Coleman	1831	May 26, 1911
Jelly, Alf.....	Calgary	1882	July 19, 1911
Johnson, Ellin.....	Calgary	1923	Aug. 26, 1911
Joseph, Orvil E.....	Macleod	1935	Sept. 8, 1911
Jantzen, Peter H.....	Calgary	1936	Sept. 8, 1911
Johnson, Benj. C.....	Magrath	1943	Sept. 9, 1911
James, John.....	Elcan	1983	Oct. 24, 1911
Jacob, Arthur.....	Royal View	2000	Nov. 17, 1911
Krause, Otto.....	Innisfail	*171	Oct. 1, 1901
Kannglessner, Simon.....	Lacombe	*512	Apr. 18, 1904
Kelsey, A. F.....	Clover Bar	*535	Apr. 18, 1904
Knapp, Henry H.....	Edmonton	*645	Oct. 15, 1904
Kerwin, James.....	Leavings	*748	Mar. 16, 1905
Kolner, Bernard.....	Millet	*793	Mar. 27, 1905
Klapstein, Ed.....	Ellerslie	*49	Apr. 25, 1900
Krouse, Wilhelm.....	Spruce Grove	*819	Apr. 14, 1905
Kallis, Ed.....	Strathcona	*847	May 26, 1905
Knight, Harry P.....	Edmonton	35	Sept. 16, 1905
Krinke, August.....	Highland Park	46	Sept. 18, 1905
Kerr, John.....	Calgary	64	Mar. 9, 1906
Kennedy, Dent.....	Calgary	124	Apr. 30, 1906
Karmagel, F. R.....	Didsbury	154	May 31, 1906
Kiddle, Thos. M.....	Stirling	165	Aug. 11, 1906
Kearney, W. J.....	Claresholm	178	Aug. 13, 1906
Kjosness, Peter P.....	Martins	217	Sept. 13, 1906

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
FORFEITED LANDS.—*Continued*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Kendrews, Jos. W.....	Edwell	250	Oct. 5, 1906
Krinke, Benj.....	Highland Park	249	Oct. 5, 1906
Knowles, Kenneth E.....	Wetaskiwin	264	Apr. 25, 1907
Kremer, David H.....	Innisfail	294	May 20, 1907
Kjorsvik, Albert.....	Eagle Hill	305	May 23, 1907
Kittlitz, Ed.....	Bruederheim	329	May 31, 1907
Kenny, John.....	Calgary	918	Mar. 30, 1909
Knape, Ernest P.....	Calgary	344	June 4, 1907
Keegan, Dan.....	Morley	355	June 4, 1907
Kreamer, Wm. W.....	Strathcona	384	June 14, 1907
Klaperazuk, S.....	Mundare	406	June 14, 1907
Keith, Scott.....	Taber	551	Dec. 26, 1907
Kniseley, Arthur C.....	Standoff	1143	Sept. 21, 1909
Klein, Emil F.....	Leduc	669	Apr. 27, 1908
Kadlec, Frank.....	Wetaskiwin	712	May 18, 1908
Kinne, Fred.....	Calgary	750	Aug. 28, 1908
Kemp, Robt. M.....	Duagh	816	Sept. 28, 1908
Keoster, Carl H.....	Granum	834	Oct. 2, 1908
Keeler, Ralph A.....	Lethbridge	851	Oct. 6, 1908
Kendrew, John T.....	Edwell	888	Mar. 20, 1909
Kalis, Theodore.....	Edmonton	941	Apr. 2, 1909
King, Chas. F.....	Macleod	953	Apr. 7, 1909
Knudson, Loues.....	Killam	1000	Apr. 22, 1909
Kundson, Chas. A.....	Wetaskiwin	1098	Sept. 10, 1909
King, Benj.....	Lethbridge	1227	Mar. 15, 1910
Keffer, J. John.....	Frank	1252	Mar. 21, 1910
Kitchen, Elroy R.....	Cayley	1265	Mar. 24, 1910
Kittlitz, Chrystian.....	Bruederheim	1307	Apr. 6, 1910
Kneis, Louis.....	Stony Plain	1308	Apr. 6, 1910
Krutz, John.....	Calgary	1328	Apr. 8, 1910
Kincade, Jerry.....	Stirling	1372	Apr. 15, 1910
Klingner, Hy.....	Calgary	1428	June 14, 1910
Kjosness, Alfred.....	Martins	1501	Sept. 21, 1910
Kuhl, Edwin.....	Stony Plain	1502	Sept. 21, 1910
Kinnen, Peter.....	Independence	1509	Sept. 21, 1910
Kruse, Herman.....	Hastings Coulee	1542	Oct. 7, 1910
Knight, O. L.....	Taber	1586	Nov. 17, 1910
Kremper, Ernest.....	Edmonton	1589	Nov. 23, 1910
Kirkby, Theo.....	Lethbridge	1619	Mar. 7, 1911
Kolschorofsky, Ed.....	Stony Plain	1698	Mar. 31, 1911
Kirstein, Aug.....	Wetaskiwin	1720	Apr. 5, 1911
Klaus, John S.....	Gleichen	1739	Apr. 19, 1911
Krodel, Jno. A.....	Irvine	1755	Apr. 15, 1911
Kincade, Wyet E.....	Seven Persons	1796	Apr. 24, 1911
Keller, Fred.....	Edmonton	1845	June 9, 1911
Kemp, George F.....	Calgary	1851	June 13, 1911
Kiviatniowsky, Joe.....	Heatherwood	1853	June 16, 1911
Klassen, Abm. W.....	Acme	1900	Aug. 22, 1911
Kaatz, Ed. A.....	Burdett	1912	Aug. 24, 1911
Kelly, John D.....	Calgary	1937	Sept. 8, 1911
Lamoureux, Alcide.....	Lamoureux	96	Nov. 15, 1900
Lee, Geo.....	Edmonton	*200	Dec. 18, 1901
Lewis Wm. H.....	Innisfail	*888	Aug. 28, 1905
Lamoureux, Alp.....	Lamoureux	*186	Dec. 18, 1902
Loiselle, Jerry.....	Red Deer	1599	June 4, 1911
Lundy, Wm. Thos.....	Innisfail	*227	Apr. 23, 1902
Lynch, Alix. W.....	Blairmore	*259	Aug. 18, 1902
Lyseng, Knut K.....	Bittern Lake	*390	Aug. 7, 1903
Lindberg, Erick.....	Calmar	*510	Apr. 18, 1904
Langhausen, Jacob.....	Fort Saskatchewan	*523	Apr. 18, 1904

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Langhausen, Peter.....	Fort Saskatchewan	*524	Apr. 18, 1904
Lee, Andrew E.....	Wetaskiwin	*525	Apr. 18, 1904
Lehman, Harrison.....	Edmonton	*564	Feb. 15, 1908
Logan, John.....	Penhold	*774	Mar. 24, 1905
Logan, Dan.....	Red Deer	*783	Mar. 24, 1905
Lee, Oscar E.....	Wetaskiwin	*788	Mar. 27, 1905
Long, Albert W.....	Namoo	36	Sept. 16, 1905
Lindholm, Andrew G. J.....	Burnt Lake	60	Dec. 27, 1905
Lee, Albert	Wetaskiwin	97	Apr. 20, 1906
Laine, Francois P.	Bankhead	138	May 14, 1906
Lambe, Alex	Didsbury	150	May 30, 1906
Linkous, Jas. B.	Raymond	173	Aug. 13, 1906
Lindsay, Samuel D.	Strathcona	212	Sept. 13, 1906
Lennox, Jas. A.	Red Deer	251	Oct. 5, 1906
Luigi, Liega	Lille	256	Dec. 28, 1906
Lawrence, Fred'k S.	Fort Vermilion	544	Oct. 29, 1907
Lawrence, Fenwick N.	Edmonton	260	Feb. 23, 1907
Lavoll, Lewis J.	Evarts	290	May 20, 1907
Lancaster, Robt. V.	Calgary	736	July 24, 1908
Latam, Myron B.	Content	371	June 7, 1907
Lehman, Sam	Nanton	438	June 19, 1907
Lamoureux, Hermida	Lamoureux	502	Oct. 15, 1907
Lamoureux, Albert	Lamoureux	503	Oct. 15, 1907
Lee, Thos. H.	Olds	518	Oct. 24, 1907
Lewis, Lyman L.	Olds	526	Oct. 24, 1907
Lang, Wm.	Okotoks	566	May 26, 1908
Lyon, Omar	Blayney	571	May 23, 1908
Lee, John A.	Edmonton	592	Apr. 2, 1908
Lee, Lars	Leduc	678	Apr. 27, 1908
Loveless, Peter	Lloydminster	707	May 18, 1908
Lucas, Sam B.	Daysland	719	May 18, 1908
Lansing, Geo.	Leavings	1455	Aug. 2, 1910
Littlefield, Chas W.	Eagle Hill	909	Mar. 26, 1909
Large, Eugene	Frank	919	Mar. 30, 1909
Lehman, Peter L.	Pincher Creek	931	Apr. 1, 1909
Laut, Frank	Ena	960	Apr. 9, 1909
Link, Ronald F.	Lethbridge	945	Apr. 6, 1909
Lunn, Edward	Stettler	963	Apr. 13, 1909
Lewis, Isaac H.	Killam	1001	Apr. 22, 1909
Long, Geo. S.	Namoo	1039	Apr. 29, 1909
Lunder, Andrew H.	Westerose	1045	Apr. 30, 1909
Leonard, Jas. F.	Seven Persons	1049	May 1, 1909
Larson, Edwin H.	Seven Persons	1050	May 1, 1909
Lindsey, Horace F.	Strathcona	1075	May 26, 1909
Larson, Harry	Langdon	1079	June 1, 1909
LaBonte, Fred	Calgary	1125	Sept. 21, 1909
Laventure, Arthur	Beaumont	1146	Sept. 25, 1909
Lawrence, Herman M.	Ross Creek	1162	Sept. 29, 1909
Long, Herbt. Wm.	Calgary	1187	Dec. 17, 1909
Lawrence, Sheridan	Fort Vermilion	741	Aug. 6, 1908
Laroux, Oliver	Chipewyan	742	Aug. 6, 1908
Lloyd, Roy A.	Carstairs	761	Sept. 11, 1908
Love, Thos.	Hicksburg	835	Oct. 2, 1908
Lindsay, Alvan A.	Calgary	1598	Jan. 6, 1911
Long Henry G.	Calgary	1450	July 15, 1910
Lewis, Geo. H.	Calgary	1209	Mar. 7, 1910
Low, Ralph E.	Carmangay	1276	Mar. 29, 1910
Lloyd, John W.	Stavely	1277	Mar. 29, 1910
Lotan, Herbt. N.	Strome	1289	Apr. 1, 1910
Linqest, Nils W.	Rivierre Qui Barre	1309	Apr. 6, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSU
<i>Third Class—Continued</i>			
LeBlanc, Roaul	Mayton	1332	Apr. 9, 1910
Lawrella, Michael	Bankhead	1339	Apr. 11, 1910
Lindman, W. L.	Milk River	1359	Apr. 14, 1910
Longacre, Fred	Taber	1373	Apr. 15, 1910
Levisque, Walter	Medicine Hat	1395	Apr. 25, 1910
Lunn, Arthur B.	Calgary	1401	Apr. 26, 1910
Long, Jas. W.	Calgary	1408	May 19, 1910
Lane, Lewis W.	Bowville	1425	June 11, 1910
Long, Fred	Beiseker	1433	June 14, 1910
Lockhart, Wm.	Kipp	1479	Sept. 1, 1910
Lithgow, John	Reid Hill	1488	Sept. 6, 1910
Lorerm, John	Edmonton	1503	Sept. 21, 1910
Lighthall, Geo. B.	Bassano	1524	Sept. 23, 1910
Lambert, Arthur	Redcliff	1533	Sept. 24, 1910
LeGear, Russell C.	Wetaskiwin	1543	Oct. 7, 1910
Lindsay, Robt.	Lethbridge	1620	Mar. 7, 1911
Labby, Alfred	La Cramette	1770	Apr. 21, 1911
Lycan, Thos. S.	Bassano	1740	Apr. 10, 1911
Lysham, J. E.	Taber	1756	Apr. 15, 1911
Lambert, John A.	Taber	1785	Apr. 24, 1911
Lee, Ed. A.	Calgary	1809	May 8, 1911
Laughery, Jas. W.	Calgary	1821	May 20, 1911
Lister, Ossie	Lethbridge	1832	May 26, 1911
Lepard, Frank	Edmonton	1887	Aug. 11, 1911
Lake, Arch.	Calgary	1901	Aug. 22, 1911
Lee, John J.	Rosemead	1913	Aug. 24, 1911
Little, Wm. H.	Lethbridge	1944	Sept. 9, 1911
Lambert, Wm. E.	Diamond City	1980	Oct. 24, 1911
Lewis, Gilbert B.	Granum	1984	Oct. 24, 1911
Lefort, Henry	Taber	2013	Dec. 19, 1911
Morkin, Jno.	Dunbow	*39	Dec. 1, 1899
Martin, M. Z.	Morinville (suspended). ..	*56	May 28, 1900
Mitchell, Tim W.	Red Deer	*119	Feb. 7, 1901
Mather, E. M.	Calgary	*133	June 6, 1901
Morden, Jacob R.	Lacombe	*187	Dec. 18, 1901
Moore, John R.	Innisfail	*190	Dec. 18, 1901
Munier, Wilfred	Stony Plain	*199	Dec. 18, 1901
Miller, Philip	Morinville	*201	Dec. 18, 1901
Meneely, Wm.	Edmonton	*204	Dec. 18, 1901
Mikethus, Michael	Leduc	*210	Dec. 18, 1901
Morkeberg, D.	Innisfail	*232	Apr. 23, 1902
Martin, Henry E.	Wardner	*854	June 13, 1905
Mooney, W. S.	Lacombe	*513	Apr. 18, 1904
Murray, A. A.	St. Albert	*536	Apr. 18, 1904
Meunier, J. H.	Morinville	*537	Apr. 18, 1904
Meredith, Wilbert	Edmonton	*538	Apr. 18, 1904
Mathews, Geo.	Strathcona	*636	Oct. 15, 1904
Morgan, Oscar	Strathcona	*643	Oct. 15, 1904
Maxfield, W. H.	Namoo	*646	Oct. 15, 1904
Mead, Francis A.	Pincher Creek	*678	Dec. 30, 1904
May, Daniel	Blairmore	*681	Jan. 21, 1905
Mew, John	Calgary	*750	Mar. 24, 1905
Muir, Wm. J.	Ponoka	1959	Sept. 23, 1911
Marler, Walter	Clover Bar	*799	Mar. 31, 1905
Mohr, John J.	Edmonton	*870	July 6, 1905
Morel, H. F.	Edmonton	37	Sept. 16, 1905
Melnyk, Wm.	Star	40	Sept. 18, 1905
Mason, Jas. D.	Clover Bar	43	Sept. 18, 1905
Moss, Richard	Edmonton	*81	Mar. 26, 1905

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Mahood, Robt. F.	Buford	94	Apr. 11, 1906
Murray, Dan. L.	Bentley	105	Apr. 24, 1906
Mitchell, Jos. C.	Tees	111	Apr. 25, 1906
Moritz, Henry C.	Olds	146	May 31, 1906
Moritz, Louis J. A.	Olds	148	May 31, 1906
Morkeberg, Holger	Markerville	157	May 31, 1906
Maxwell, Tim	Claresholm	180	Aug. 13, 1906
Murray, Thos. N.	Medicine Hat	171	Aug. 11, 1906
Muir, Geo. A.	Morrissey	877	Feb. 1, 1909
Maunchaw, Aug.	Strathcona	218	Sept. 13, 1906
Mead, Wm.	Edmonton	221	Sept. 13, 1906
Maxfield, Geo. A.	Namoo	236	Sept. 13, 1906
Miller, Dick F.	Blackfalds	241	Sept. 27, 1906
Malcher, Chas.	Wetaskiwin	246	Oct. 5, 1906
Miller, Jones P.	Delnorte	334	May 31, 1907
Morrison, Avarid L.	Calgary	348	June 4, 1907
Martin, Jno. C. B.	Calgary	362	June 4, 1907
Moody, Jas. Wm.	Brocket	363	June 4, 1907
Morter, Chas. J.	Iowalta	365	June 7, 1907
Miller, Wm. M.	Brant	420	June 19, 1907
Morrow, Jos. W.	Roundup	460	July 15, 1907
Meldrum, David (Jr.)	Raymond	466	July 15, 1907
Manning, Jas. A.	Cowley	471	July 16, 1907
Munro, Milo.	Gleichen	484	Aug. 28, 1907
Martin, Chas. A.	High River	487	Sept. 4, 1907
Miller, Ferd. C.	Cooking Lake	496	Oct. 15, 1907
Munro, Fred	Innisfail	510	Oct. 22, 1907
Morden, Jno.	Lacombe	925	Mar. 30, 1909
Malchow, G. E. A.	Earlville	538	Oct. 28, 1907
Mignault, Jos. C.	Calgary	579	Mar. 23, 1908
Middleton, Archie C.	Nanton	583	Mar. 23, 1908
Marshall, Frank P.	Spring Point	600	Apr. 8, 1908
May, Alex S.	Lille	641	Apr. 14, 1908
Millar, T. B.	Burnt Lake	1631	Mar. 7, 1911
Marson, Chas. H.	Medicine Hat (dup.)...	735	July 15, 1908
Mitchell, Franklin A.	Medicine Hat	664	Apr. 27, 1908
Miles, Jas.	Vermilion	667	Apr. 27, 1908
Mark, David McK.	Mannville	1189	Dec. 29, 1909
Marler, Jas. T.	Crossfield	683	May 1, 1908
Martin, Landis	Stettler	686	May 1, 1908
Millar, Jno. F.	Bentley	694	May 6, 1908
Munro, Alex A.	Lockhart	696	May 6, 1908
Morris, Wm. H.	Wetaskiwin	698	May 6, 1908
Maurice, Frank E.	Edmonton	730	May 26, 1908
Maxwell, Jno. W.	Cochrane	731	June 12, 1908
Morris, Jas. E.	Lochend	732	June 12, 1908
Morris, Jas. W.	Canmore	734	June 29, 1908
Morton, Lewis R.	Athabasca Landing ...	745	Aug. 6, 1908
Mott, Henry J.	Red Deer	752	Sept. 2, 1908
Murray, Jas.	Murray Valley	757	Sept. 8, 1908
Mortelette, H. C.	Edmonton	778	Sept. 18, 1908
Masse, Louis	Legal	788	Sept. 21, 1908
Mulligan, Geo. B.	Bon Accord	789	Sept. 21, 1908
Miller, Jacob	Stony Plain	790	Sept. 21, 1908
Marshall, Robt. E.	Raymond	852	Oct. 6, 1908
Murphy, Edward F.	Strathcona	875	Jan. 8, 1909
Morris, Andrew	Calgary	882	Mar. 19, 1909
Mackin, John	Lethbridge	902	Mar. 24, 1909
Mitchell, Ava D.	Aldersyde	935	Apr. 2, 1909
Munson, Jas. B.	Reid Hill	936	Apr. 2, 1909

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Moore, Corey G.	Macleod	954	Apr. 7, 1909
Mudiman, David L.	Macleod	970	Apr. 16, 1909
Myers, James	Claresholm	955	Apr. 8, 1909
Myers, Roy C.	Claresholm	971	Apr. 16, 1909
Mulligan, Jos.	Canmore	1026	Apr. 23, 1909
Mundell, Wm. G. R.	Lethbridge	1054	May 3, 1909
Monson, Jos.	Camrose	1092	Sept. 7, 1909
Miller, Jas.	Diamond City	1104	Sept. 15, 1909
Munro, Claud	Lethbridge	1480	Sept. 1, 1910
Marr, Robt.	Edmonton	1164	Sept. 29, 1909
Miller, Herman A.	Edmonton	1175	Oct. 27, 1909
Morris, John	Wild Horse	1177	Nov. 13, 1909
Muirhead, Jas. W.	Calgary	1210	Mar. 7, 1910
Mitchell, Wesley C.	Calgary	1211	Mar. 7, 1910
Morningstar, Roy	Lethbridge	1229	Mar. 15, 1910
Martin, Wm. A.	Lethbridge	1230	Mar. 15, 1910
Malchow, Fred C.	Claresholm	1278	Mar. 29, 1910
Mach, Jos.	Camrose	1291	Apr. 1, 1910
Messmer, Jno. F.	Hastings Coulee	1292	Apr. 1, 1910
Mildon, Wm. L.	Ponoka	1301	Apr. 5, 1910
Mueller, Mike M.	Warner	1361	Apr. 14, 1910
Mahood, C. J.	New Dayton	1362	Apr. 14, 1910
Mayberry, Thos. W.	Warner	1363	Apr. 14, 1910
Mitchell, Wm.	Calgary	1386	Apr. 21, 1910
Miles, John	Lethbridge	1388	Apr. 22, 1910
Merkel, Jacob F.	Irvine	1396	Apr. 25, 1910
Morley, Wm. N.	Morningside	1405	May 17, 1910
Mogridge, John Jas.	Copeville	1420	June 9, 1910
Molton, Earl	Calgary	1464	Aug. 29, 1910
Michaelis, Eddie	Milk River	1481	Sept. 1, 1910
Marshall, Wm. J.	Calgary	1525	Sept. 23, 1910
Malcolm, Roy	Calgary	1526	Sept. 23, 1910
Moses, Geo.	Medicine Hat	1534	Sept. 24, 1910
Muir, Geo. H.	Ponoka	1982	Oct. 24, 1911
Matson, Chas.	Calgary	1577	Oct. 20, 1910
Mudra, Chas.	Frank	1632	Mar. 11, 1911
Matheson, Murdoch R.	Granum	1645	Mar. 15, 1911
Musser, Angus	Bassano	1654	Mar. 20, 1911
Mansell, Wm.	Canmore	1741	Apr. 10, 1911
Moran, George I.	Langdon	1766	Apr. 19, 1911
Martin, Wm.	Sandstone	1767	Apr. 19, 1911
Martin, A. W.	Taber	1786	Apr. 24, 1911
Maker, Edgar L.	Seven Persons	1787	Apr. 24, 1911
Melton, John W.	Calgary	1806	May 6, 1911
Murrell, Vasco E.	Hardisty	1810	May 13, 1911
Melanson, Norman M.	Edmonton	1815	May 18, 1911
Mattison, Fred	Blairmore	1834	May 26, 1911
Murphy, Matthew	Granum	1835	May 26, 1911
Mayberry, J. R.	Red Deer	1855	June 17, 1911
Mah, Sam	Edmonton	1871	July 12, 1911
Miller, Wm. G.	Ryley	1893	Aug. 16, 1911
Meritt, Arza M.	Noble	1914	Aug. 24, 1911
Milligan, John L.	Burdett	1920	Aug. 25, 1911
Mickleston, George A.	Calgary	1924	Aug. 26, 1911
Miniekler, John	Calgary	1925	Aug. 26, 1911
Morrison, Wm. V.	Red Deer	1930	Sept. 7, 1911
Miller, Edward S.	Spring Coulee	1945	Sept. 9, 1911
Meldrum, John C.	Lethbridge	1947	Sept. 9, 1911
Mullin, Jas.	Edmonton	1955	Sept. 9, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Mildren, Wm. Geo.	Airdrie	1972	Oct. 20, 1911
Morgan, Jacob	Lethbridge	1981	Oct. 24, 1911
Melle, Ed. L.	Carlstadt	1994	Nov. 16, 1911
McKernan, Jas.	Edmonton	*28	Oct. 29, 1899
McDonald, Findlay	Sturgeon	*86	Oct. 23, 1900
McLellan, Jno.	Fort Saskatchewan	*93	Nov. 15, 1900
McLeod, M. J.	Fort Saskatchewan	*94	Nov. 15, 1900
McKellar, Jno.	Fort Saskatchewan	*95	Nov. 15, 1900
McKinley, Murdoch	Stony Plain	*203	Dec. 18, 1901
McLean, Archibald	Lethbridge	*250	Aug. 18, 1902
McLean, Alix. M.	Calgary	*347	Mar. 9, 1902
McGarry, Fred	Lacombe	*355	Apr. 24, 1903
McDonald, Wm.	Penhold	*369	May 13, 1903
McConnell, Jas. R.	Red Deer	*372	May 13, 1903
McLean, Jas. A.	Star	*539	Apr. 18, 1904
McDiarmid, A. D.	Edmonton	*540	Apr. 18, 1904
McFadyen, Jno. R.	Strathcona	*553	June 3, 1904
McDonald, Malcolm	Mountain Hill	*594	Sept. 14, 1904
McLeod, D. J. W.	Strathcona	766	Sept. 11, 1908
McKenzie, Dan	Lacombe	*760	Mar. 24, 1905
McInroy, Paul	Edwell	*773	Mar. 24, 1905
McEachern, Malcolm	Leduc	*792	Mar. 27, 1905
McCarthy, Jas.	Calmar	*793	Mar. 27, 1905
McPhail, Jno.	Bellevue	8	Sept. 16, 1905
McDonald, Dan.	Morinville	66	Mar. 16, 1906
McLaughlin, Chas.	Namoo	68	Mar. 16, 1906
McCallum, Albert W.	Beaver Lake	95	Apr. 18, 1906
McAnnaly, Peter J.	Crossfield ..	153	May 31, 1906
McLean, Wm. Jno.	Hillcrest	188	Aug. 13, 1906
McPherson, Jas. P.	Bentley	1416	May 23, 1910
McNutt, Watson	Medicine Hat	262	Apr. 6, 1907
McCune, Oscar	Red Deer	289	May 20, 1907
McGregor, Wm. W.	Blackfalds	298	May 20, 1907
McDonell, Archie A.	Calgary	339	June 4, 1907
McIvor, David S.	Marwayne	388	June 14, 1907
McWhirter, Jas. A.	Camrose	408	June 14, 1907
McAlister, Donald C.	Lethbridge	1088	Aug. 20, 1909
McDonald, Geo. A.	Pincher Creek	454	July 15, 1907
McAlister, Alfred	Claresholm	468	July 15, 1907
McGhan, Silas S.	Clover Bar	493	Oct. 15, 1907
McLean, Laughlin	Innisfail	512	Oct. 22, 1907
McGuire, Thos.	Lacombe	535	Oct. 28, 1907
McLean, Garnet W.	Calgary	558	Jan. 20, 1908
McPhee, Jno.	Edmonton	596	Apr. 2, 1908
McDonald, Hugh D.	Frank	605	Apr. 8, 1908
McNairland, Robt. Jas.	Granum	608	Apr. 8, 1908
McCutcheon, R. H.	Pincher Creek	631	Apr. 9, 1908
McRae, Duncan A.	Taber	633	Apr. 9, 1908
McRoberts, And.	Pine Lake	644	Apr. 14, 1908
McDougall, Wm.	Mewassin	655	Apr. 22, 1908
McIvor, Wm.	Marwayne	668	Apr. 27, 1908
McDermid, Alex M.	Elkwater	703	May 14, 1908
McIntosh, Duncan D.	Three Hills	795	Sept. 22, 1908
McCall, Samuel D.	Pincher Creek	932	Apr. 1, 1909
McMillan, Hugh A.	Edmonton	943	Apr. 3, 1909
McPherson, Jabez B.	Bentley	946	Apr. 6, 1909
McKenzie, John A.	Edmonton	1067	May 21, 1909
McPherson, Adam	Red Deer	1089	Apr. 24, 1909
McKenzie, Geo.	Lethbridge	1106	Sept. 15, 1909
McKenzie, Wesley J.	Brant	1537	Sept. 28, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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<i>Third Class—Continued</i>			
McCausland, Chas. A.	Calgary	1457	Aug. 8, 1910
McCallum, Jos.	Beaver Lake ..	1163	Sept. 29, 1909
McAlister, Donald C.	Diamond City	1228	Mar. 15, 1910
McLaughlin, Lorne	Cardiff	1310	Apr. 8, 1910
McLaughlin, Wm. E.	Okotoks	1329	Apr. 8, 1910
McGibbon, Robt. F.	Taber	1374	Oct. 15, 1910
McCauley, Chas.	New Dayton	1426	June 11, 1910
McBlane, Donald	Cowley	1427	June 11, 1910
McPherson, Jno.	Calgary	1429	June 14, 1910
McTighe, Frank B.	Lethbridge	1437	July 8, 1910
McKenna, Felix	Cochrane	1449	July 15, 1910
McKnight, Dan	Calgary	1454	July 29, 1910
McPherson, Alec.	Blairmore	1470	Aug. 31, 1910
McLeod, Jas. W.	Leslieville	1516	Sept. 21, 1910
McLeod, John B.	Innisfail	1517	Sept. 21, 1910
McInroy, Jno. C.	Innisfail	1555	Oct. 17, 1910
McGlenn, Lester S.	Lethbridge	1569	Oct. 20, 1910
McDonald, Wm. F.	Lethbridge	1570	Oct. 19, 1910
McLeod, Herdman	Coleman	1602	Jan. 14, 1911
McAuley, Dan.	Kipp	1621	Mar. 7, 1911
MacKay, Duncan	Sandstone	1655	Mar. 20, 1911
McLean, Jas.	Edmonton	1667	Mar. 25, 1911
McMullin, Alp. L.	Raymond	1682	Mar. 28, 1911
McLeod, Angus	Stettler	1721	Apr. 5, 1911
McLaughlin, Jas. M.	Bassano	1742	Apr. 10, 1911
McLean, Hugh	Cummings	1771	Apr. 21, 1911
McLean, Niven P.	Berseker	1807	May 6, 1911
McGlen, Robt. M.	Lethbridge	1833	May 26, 1911
McDermid, Chas. C.	Alix	1854	June 17, 1911
McKerricher, W. R.	Pincher Creek	1864	June 20, 1911
McCrae, Ern. A.	Lethbridge	1865	June 20, 1911
McLaughlin, Elmer	Edmonton	1896	Aug. 18, 1911
McDonald, John A.	Calgary	1938	Sept. 8, 1911
McClennand, Allan	Fishburn	1946	Sept. 9, 1911
McCarty, Jas. S.	Hand Hills	1995	Nov. 16, 1911
McLeod, Fraser	Diamond City	2001	Nov. 17, 1911
McAlduff, Edward	Camrose	2006	Dec. 8, 1911
Nelson, Frank	Wetaskiwin	*60	May 30, 1900
Nichol, David	Innisfail	*191	Dec. 18, 1901
Noyes, Dan. E.	St. Albert	*197	Dec. 18, 1901
Nichols, Jas. J.	Edmonton	*358	May 13, 1903
Niven, Jno.	Lethbridge	*451	Oct. 6, 1903
Nehr, Wm. A.	Edmonton	75	Mar. 26, 1906
Nehr, Henry R.	Edmonton	245	Sept. 28, 1906
Noel, Kenneth E.	Canyon	113	Apr. 25, 1906
Nelson, Wilfred	Calgary	119	Apr. 30, 1906
Nelson, Arthur W.	Edmonton	132	May 10, 1906
Neeb, Louis	Edmonton	161	June 5, 1906
Nichols, Alex J.	Edmonton	220	Sept. 13, 1906
Neis, Geo. M.	Lamerton	228	Sept. 20, 1906
Norlie, Hackon C.	Edmonton	501	Oct. 15, 1907
Nixon, Robt. J.	Crossfield	524	Oct. 24, 1907
Neis, Philip	Lamerton	530	Oct. 24, 1907
Neilson, Geo.	Haynes	540	Oct. 28, 1907
Nadeau, T. Eudore	Lavoy	675	Apr. 27, 1908
Nichols, Wm. R.	Edmonton	729	May 26, 1908
Neufeld, Abraham J.	Neapolis	762	Sept. 11, 1908
Neufeld, Peter W.	Noelton	763	Sept. 11, 1908
Neate, Harry	Edmonton	779	Sept. 18, 1908
Newsome, Wm. H.	Calgary	796	Sept. 22, 1908

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Norgaard, Peter J.	Calgary	797	Sept. 22, 1908
Norton, Paul	Reid Hill	836	Oct. 2, 1908
Nemsgern, Jno.	Claresholm	837	Oct. 22, 1908
Neville, Fred R.	Mountain View	853	Oct. 6, 1908
Norrie, Jas.	Medicine Hat	1051	May 1, 1909
Nelson, Peter I.	Amisk	1093	Sept. 7, 1909
Naylor, Edward H.	Morinville	1165	Sept. 29, 1909
Nelson, Chrest	Medicine Hat	1186	Dec. 17, 1909
Nicholson, John M.	Lundbreck	1253	Mar. 21, 1910
Neil, N. Walter	Coleman	1471	Aug. 31, 1910
Needham, Harry H.	Edmonton	1606	Jan. 23, 1911
Noble, William Jno.	High River	1656	Mar. 20, 1911
Nelson, Willard T.	Sunnyslope	1722	Apr. 5, 1911
Nichols, John D.	Lethbridge	1788	Oct. 24, 1911
Ottewell, Richard P.	Edmonton	*27	Oct. 9, 1899
Omand, Jno.	Edmonton	*522	Apr. 14, 1904
Olsen, H. B.	Ellerslie	*542	Apr. 18, 1904
Oliver, Wesley N.	Wostok	*814	Apr. 14, 1905
Olsen, Gilbert E.	Star	*815	Apr. 14, 1905
Ottewell, Albert	Clover Bar	77	Mar. 26, 1906
O'Dell, Geo. W.	High River	733	June 22, 1908
Orford, Andrew B.	Macleod	478	July 15, 1907
Oberg, Knute L.	Strathcona	491	Oct. 15, 1907
Oliver, Peter C.	Calgary	562	Jan. 20, 1908
Oakes, Louis D.	Claresholm	567	Mar. 23, 1908
O'Connor, Jno.	Mossleigh	568	Mar. 23, 1908
Oler, Geo., jr.	Stirling	602	Apr. 8, 1908
Orser, Jno. R.	Tristram	1333	Apr. 9, 1910
O'Reilly, C.	Bells Hill	784	Sept. 18, 1908
Olson, Matz	Wilton Park	817	Sept. 28, 1908
Oster, Carl	Good Hope	818	Sept. 28, 1908
Orr, Alf. E.	Irvine	854	Oct. 6, 1908
Osborne, Homer	Taber	855	Oct. 6, 1908
Orser, Harry	Calgary	883	Mar. 19, 1909
Olsen, Elmer A.	Prairie View	891	Mar. 24, 1909
Ostby, Anton	Strathmore	1027	Apr. 28, 1909
O'Brien, Roy	Raymond	1107	Sept. 15, 1909
Orr, Joshua	Irvine	1154	Sept. 28, 1909
Ostlund, Gustav	Stirling	1231	Mar. 15, 1910
O'Connell, Patrick B.	Raymond	1317	Apr. 7, 1910
Ohlson, Carl L.	Millarville	1409	May 19, 1910
Ohrn, Carl H.	Ohrnville	1557	Oct. 17, 1910
Omang, Carl A.	Stettler	1675	Mar. 24, 1911
Ostby, Charles	Milk River	1688	Mar. 29, 1911
Ormson, Joseph J.	Ryley	1699	Mar. 31, 1911
Orr, Fred	Canmore	1743	Apr. 10, 1911
Oliver, Robt. T.	Grassy Lake	1705	Mar. 31, 1911
O'Connor, Pat. J.	Carlstadt	1744	Apr. 10, 1911
Odell, Ed.	Calgary	1822	May 20, 1911
Ottewell, Arthur J.	Clover Bar	1894	Aug. 16, 1911
Olsen, J. Gilbert	Burdett	1915	Aug. 24, 1911
Pierce, Geo. J.	Red Deer	*46	Mar. 8, 1900
Pearce, Jas.	Edmonton	*87	Oct. 23, 1900
Putman, Albert E.	Edmonton	*202	Dec. 18, 1901
Powell, Jas. A.	Edmonton	*208	Dec. 18, 1901
Pearce, Wm.	Edmonton	*229	Apr. 23, 1902
Pimm, Jno.	Lethbridge	*258	Aug. 18, 1902
Pullshy, Wm.	Star	*384	June 23, 1903
Pullesen, Peter	Calgary	*492	Mar. 14, 1904
Piper, F. E.	Red Deer	*546	Apr. 18, 1904

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Porter, Gerard A.	Red Deer (dup.).....	*851	June 6, 1905
Peterson, Robt. F.	Wetaskiwin	*789	Mar. 27, 1905
Pipegrass, Fred'k.	Raymond	24	Sept. 16, 1905
Pearson, Herbert S.	Red Deer	62	Dec. 29, 1905
Peffuger, Geo.	Wetaskiwin	98	Apr. 20, 1906
Peterson, Martin E.	Claresholm	179	Aug. 13, 1906
Pitmann, Wm. T.	Wetaskiwin	279	May 15, 1907
Pratt, Arthur W.	Three Hills	300	May 23, 1907
Patterson, Johnston	Strathcona	308	May 23, 1907
Pyle, Joshua	Langdon	354	June 4, 1907
Peterson, Alfred L.	Heather Brae	397	June 14, 1907
Phillips, Fred H.	Frank	476	July 15, 1907
Pylypow, Wasyl	Star	504	Oct. 15, 1907
Prehn, Emil N.	Strome	508	Oct. 15, 1907
Peterson, Fred. A.	Wetaskiwin	529	Oct. 28, 1907
Page, Sam. Jas.	Lacombe	532	Oct. 28, 1907
Pethick, Roy W.	Okotoks	1331	Apr. 8, 1910
Pozin, Otto E.	Claresholm	577	Mar. 23, 1908
Peat, Geo. A.	Lethbridge	611	Apr. 8, 1908
Power, Eugene	Lethbridge	615	Apr. 8, 1908
Peat, Jas. T.	Lethbridge	619	Apr. 8, 1908
Phillips, Walter I.	Magrath	620	Apr. 9, 1908
Peters, Andy	Blairmore	621	Apr. 9, 1908
Peterson, Anton	Evarts	638	Apr. 14, 1908
Parker, Ed. W.	Innisfail	642	Apr. 14, 1908
Piersall, Wm. S.	Harmattan	646	Apr. 14, 1908
Putnam, Orlean E.	Edmonton	666	Apr. 27, 1908
Pfitzeumier, Herman	Stettler	687	May 1, 1908
Pall, Jos., Jr.	Prague	717	May 18, 1908
Phillips, Wm. J.	Clover Bar	725	May 18, 1908
Papineau, Francis C.	Battle Lake	727	May 18, 1908
Parker, David L.	Penhold	753	Sept. 3, 1908
Parmelee, J. M.	Bluff Centre	771	Sept. 14, 1908
Park, Hugh A.	Placington	785	Sept. 18, 1908
Parsons, Harry	Okotoks	1234	Mar. 15, 1910
Philpot, Jos.	Bawlf	807	Sept. 25, 1908
Podgarmy, Mike	Leduc	819	Sept. 28, 1908
Porter, Wm.	Stavely	838	Oct. 2, 1908
Peak, Jos. H.	Pokahasset	870	Nov. 26, 1908
Payzant, Jno. M.	Edmonton	873	Dec. 23, 1908
Paul, Karl	Strathcona	880	Mar. 4, 1909
Prout, Thos. R.	Medicine Hat	904	Mar. 26, 1909
Peterson, Martin O.	Hicksburg	937	Apr. 2, 1909
Passmore, Thos. A.	Content	964	Apr. 13, 1909
Poullot, Emil E.	Taber	1014	Apr. 25, 1909
Pickering, Geo.	Canmore	1030	Apr. 28, 1909
Pierce, Alfred	Lamont	1040	Apr. 29, 1909
Parsons, Henry	Lac Ste. Anne	1041	Apr. 29, 1909
Purmal, Jacob	Medicine Hat	1052	May 1, 1909
Paget, Thos. J.	Claresholm	1128	Sept. 21, 1909
Parken, Jos.	Carman	1129	Sept. 21, 1909
Pallot, Harold E.	Edmonton	1212	Mar. 7, 1910
Powell, John	Lucky Strike	1233	Mar. 7, 1910
Parsons, Alfred J.	Royal City	1622	Dec. 27, 1910
Paulson, Paul	Lethbridge	1237	Mar. 15, 1910
Pattinson, Geo.	Frank	1254	Mar. 21, 1910
Parkin, David	Macleod	1268	Mar. 28, 1910
Piepgas, Valdemar	Raymond	1318	Apr. 7, 1910
Pearson, Richard V.	Okotoks	1330	Apr. 8, 1910
Puntus, Frank	Airdrie	1340	Apr. 11, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Paradis, Felix	Tofield	1349	Apr. 13, 1910
Parker, John W.	Bow Island	1379	Apr. 19, 1910
Perks, Chas.	High River	1410	Apr. 19, 1910
Phillips, Wm.	Calgary	1451	July 15, 1910
Purcell, Frank	Taber	1510	Sept. 21, 1910
Peterson, Emil	Heatherbrae	1538	Sept. 28, 1910
Parker, Ralph A.	Lewisville	1544	Oct. 7, 1910
Potter, John	Royton	1553	Oct. 17, 1910
Pearce, Gilbert E.	Edmonton	1561	Oct. 19, 1910
Parson, Howard E.	Pine Creek	1604	Jan. 20, 1911
Pike, Fred. G.	Edmonton	1668	Mar. 22, 1911
Pederson, S. M.	Warner	1689	Mar. 29, 1911
Prouty, Hiram	Lost Lake	1706	Mar. 31, 1911
Peterson, Soreng	Hand Hills	1745	Apr. 10, 1911
Porter, J. E.	Medicine Hat	1757	Apr. 15, 1911
Parnell, Fred. R.	Medicine Hat	1758	Apr. 15, 1911
Phillips, Harvey G.	Cardiff	1772	Apr. 21, 1911
Pratt, William W.	Ponoka	1856	June 17, 1911
Pomarleau, Louis	Burdett	1857	June 20, 1911
Potter, Thomas	Raymond	1866	June 20, 1911
Palmer, Henry A.	Calgary	1902	Aug. 22, 1911
Pradon, Jean M.	Strathcona	1921	Aug. 25, 1911
Peterson, Peter	Warner	1948	Sept. 9, 1911
Parro, Louis	Lacombe	1990	Nov. 11, 1911
Pratt, Fred.	Lethbridge	2002	Nov. 17, 1911
Proughton, Donald G.	Elm Park	2010	Dec. 12, 1911
Quigley, Thos.	Cochrane	546	Nov. 22, 1907
Quigley, Jas. S.	Cochrane	874	Dec. 31, 1908
Quinn, Wm. B.	Edmonton	1188	Dec. 27, 1909
Quick, Elbert K.	Sundial	1237	Mar. 15, 1910
Quesseth, Geo. O.	Meeting Creek	1435	July 6, 1910
Robinson, Jno.	Edmonton	*26	Oct. 9, 1899
Rutherford, Jno.	Medicine Hat	1549	Oct. 17, 1910
Ross, Thos. G.	Poplar Lake	*97	Nov. 15, 1900
Rattray, Archie B.	Edmonton	*108	Dec. 15, 1900
Rafie, Andrew	Bon Accord	*301	Oct. 2, 1902
Ryan, James	Wetaskiwin	*316	Oct. 22, 1902
Redig, Valentine	Lacombe	*514	Apr. 18, 1904
Rivet, Arthur	Morinville	*549	May 26, 1904
Ramsay, Jas.	Coleman	620	Oct. 27, 1905
Rice, Geo. A.	Strathcona	39	Sept. 18, 1905
Rath, Edw. L.	Conjuring Creek	93	Apr. 11, 1906
Read, Edgar A.	Manfred	102	Apr. 20, 1906
Reese, Harry E.	Wetaskiwin	137	May 10, 1906
Roulston, Robt.	Bowden	160	May 31, 1906
Robearge, Wm.	Vegreville	215	Sept. 13, 1906
Rorem, T. A.	Duhamel	1760	Apr. 18, 1911
Rockstad, Abraham	Wetaskiwin	247	Oct. 5, 1906
Rath, Ernest W.	Conjuring Creek	277	May 15, 1907
Royle, Wm. H.	Calgary	347	June 4, 1907
Ramey, Morgan	Vegreville	382	June 14, 1907
Reay, Jno. G.	Lamerton	391	June 14, 1907
Robinson, N. J.	DeWinton	425	June 19, 1907
Rydberg, Emil W.	Glenview	432	June 19, 1907
Richards, Wm.	Lundbreck	920	Mar. 30, 1909
Rice, Wm.	Andrew	500	Oct. 15, 1907
Ross, Dexter A.	Strathcona	507	Oct. 15, 1907
Rear, Chas. W.	Mayton	645	Apr. 14, 1908
Raymer, Oliver	Didsbury	653	Apr. 15, 1908

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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Russell, Chas. O.	Brockville	695	May 6, 1908
Ramsey, Ralph H.	Vegreville	722	May 18, 1908
Rix, Percy H.	Wetaskiwin	728	May 26, 1908
Rattray, Alex	Dog Pound	764	Sept. 11, 1908
Rude, Jno. N.	Priddis	804	Sept. 24, 1908
Ronaghan, Albert H.	Vermilion	820	Sept. 28, 1908
Reid, Jas. Robt.	Claresholm	839	Oct. 2, 1908
Rigby, Wm. T.	Claresholm ..	840	Oct. 2, 1908
Rills, Wilson H.	Claresholm	841	Oct. 2, 1908
Richards, Neal S.	Aetna	857	Oct. 6, 1908
Rattray, Thos. A., Jr.	Edmonton	*550	May 26, 1904
Ritchie, John	Calgary	884	Mar. 19, 1909
Rothwell, John T.	Lethbridge	896	Mar. 24, 1909
Robinson, Wm.	Edmonton	940	Apr. 3, 1909
Russell, John	Gaetz Valley	947	Apr. 6, 1909
Rice, Augustus M.	Carmangay	972	Apr. 16, 1909
Riches, Chas. B.	Edmonton	984	Apr. 20, 1909
Redshaw, Arthur R.	Lethbridge	1055	May 3, 1909
Robinson, H. M.	Lethbridge	1059	May 4, 1909
Rundgren, John S.	Edmonton	1076	May 26, 1909
Robertson, Frank E.	Gleichen	1130	Sept. 21, 1909
Roy, Jos. R.	Stony Plain	147	Sept. 25, 1909
Reimer, Henry H.	Neapolis	1200	Mar. 4, 1910
Romeil, Geo. H.	Stirling	1238	Mar. 15, 1908
Reilly, Thos	Coal City	1239	Mar. 15, 1910
Richards, Peter W.	Lethbridge	1240	Mar. 15, 1910
Rice, Aaron R.	Claresholm	1279	Mar. 29, 1910
Ross, John P.	Granum	1282	Mar. 30, 1910
Reed, David	Rimbey	1294	Apr. 1, 1910
Robertson, Geo. H.	Hamilton	1397	Apr. 25, 1910
Ritchie, Wm. O.	Strathcona ..	1444	July 14, 1910
Roberts, Edward Ivor ..	Strathcona ..	1445	July 14, 1910
Rhimes, Robt.	Calgary	1458	Aug. 8, 1910
Roth, Chas.	Strome	1461	Aug. 15, 1910
Robertson, Mark W.	Kitseoty	1462	Aug. 24, 1910
Ryan, Harry	Frank	1472	Aug. 31, 1910
Robertson, Jas. M.	Calgary	1527	Sept. 23, 1910
Reid, John E.	Eagle Butte	1535	Sept. 24, 1910
Robertson, Alex	Calgary	1600	Jan. 13, 1911
Reed, Edwin L.	Passburg	1603	Jan. 14, 1911
Richardson, Ern.	Calgary	1657	Mar. 20, 1911
Remington, Otto. C.	Milk River	1690	Mar. 29, 1911
Restall, Fred.	Bassano	1746	Apr. 10, 1911
Rolfson, Sam. G.	Comrey	1789	Apr. 24, 1911
Rorney, Andrew	Noble	1790	Apr. 24, 1911
Rauds, Harry	Macleod	1791	Apr. 24, 1911
Radway, Orlando S.	Radway Centre	1816	May 18, 1911
Rawson, George ..	Suffield	1836	May 26, 1911
Rolfe, Lyman	Bow Island	1867	June 20, 1911
Raw, Frank	Calgary	1883	July 19, 1911
Rusk, Andrew P.	New Dayton	1916	Aug. 24, 1911
Richfield, Floyd I.	Macleod	1917	Aug. 24, 1911
Rice, Martin	Grassy Lake	1949	Sept. 9, 1911
Radolff, Adolf	Edmonton	1965	Oct. 18, 1911
Stadelbauer, Simon	Spruce Grove	*4	Sept. 18, 1899
Stewart, Thos. H.	Strathcona	*30	Oct. 9, 1899
Smith, Wm. F.	Athabasca Landing	*38	Nov. 28, 1899
Shaw, Jno. Y.	Midnapore	*40	Dec. 1, 1899
Saunders, Elias T.	Lethbridge	*47	Mar. 23, 1900
Snider, Jno. B.	Okotoks	*68	July 19, 1900

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Steffles, Fred	Morinville	*90	Nov. 15, 1900
Schlegel, Frank	Duhamel	*118	Jan. 26, 1901
Stewart, Archie	Edmonton	*161	Sept. 7, 1901
Stulz, Frank	St. Albert	*196	Dec. 18, 1901
Staffles, Jos.	Morinville	*91	Nov. 15, 1900
Simpson, Robt. N.	Edmonton	*198	Dec. 18, 1901
Smith, Sam. W.	Leduc	*228	Apr. 23, 1902
Still, Wm.	Vegreville	*328	Dec. 18, 1902
Stewart, Jas. A.	Beaver Lake	*329	Dec. 18, 1902
Shields, Wm. K.	Strathcona	*363	May 13, 1903
Smith, Larnet E.	Ponoka	*387	July 13, 1904
Schatz, Robt.	Strathcona	*635	Oct. 15, 1904
Swift, W. L.	Edmonton	*647	Oct. 15, 1904
Sloan, Wm. J.	Calgary	*145	May 1906
Swingle, Walter A.	Didsbury	*751	Mar. 24, 1905
Scott, Geo. W.	Innisfail	*758	Mar. 24, 1905
Spannel, Jno.	Leduc	*796	Mar. 27, 1905
Scott, Sam. R.	Olds	*797	Mar. 28, 1905
Stafford, Jno.	Sollman	*817	Apr. 14, 1905
Short, Walker	Mewassin	*826	May 13, 1905
Schull, Angelo	Lille	1453	Aug. 25, 1910
Skouson, Z. N.	Raymond	21	Sept. 16, 1905
Skouson, Peter N.	Raymond	25	Sept. 16, 1905
Sherwood, L. H.	Beaumont	29	Sept. 16, 1905
Swedfeger, Amos	Leduc	41	Sept. 18, 1905
Svarich, Peter	Kolomea	76	Mar. 26, 1906
Suru, Jno.	Edmonton	78	Mar. 26, 1906
Schroeder, Ed. H.	High River	120	Apr. 30, 1906
Sherlin, Adam	Red Deer	128	Mar. 4, 1906
Smith, Chas. W.	Foreman	131	May 10, 1906
Stephenson, Jas. McC.	Innisfail	155	May 31, 1906
Speakman, Alfred	Penhold	159	May 31, 1906
Sanders, T. Aron	Cardston	166	Aug. 11, 1906
Stephen, Jas.	Frank	175	Aug. 13, 1906
Stannk, Isadore	Frank	176	Aug. 13, 1906
Stillman, Geo. F.	Spring Point	181	Aug. 13, 1906
Stuckey, Richard	Pincher Creek	185	Aug. 13, 1906
Scribner, Jos.	Leavings	190	Aug. 13, 1906
Smith, Jno. H.	Nanton	195	Aug. 13, 1906
Stevens, H. E.	Macleod	202	Aug. 13, 1906
Smith, David H.	Calgary	206	Aug. 25, 1906
Somerset, Robt. N.	Vermilion	210	Sept. 13, 1906
Smith, Jno.	Pakan	240	Sept. 27, 1906
Stevens, Harry L.	Olds	211	Sept. 13, 1906
Small, Jesse J.	Didsbury	243	Sept. 26, 1906
Scarth, Walter	Calgary	269	Apr. 29, 1906
Santrock, J. M.	Edmonton	269	Apr. 29, 1907
Sorenson, Nels G.	Kellman	283	May 15, 1907
Smith, Chas. A.	Red Deer	285	May 15, 1907
Smith, Sam. T.	Leslieville	287	May 20, 1907
Schmidt, Henry W.	Red Deer	288	May 20, 1907
Salzl, Rudolph	Morinville	307	May 23, 1907
Swingle, Gala R.	Didsbury	310	May 29, 1907
Scott, Wm.	Three Hills	321	May 29, 1907
Stagg, Jno. C.	Calgary	805	Sept. 22, 1908
Stearns, Chas. A.	Carstairs	356	June 4, 1907
Siddall, Wm. M.	Neapolis	360	June 4, 1907
Saunders, Abraham	Lacombe	372	June 7, 1907
Stevens, Clostin H.	Ersikine	378	June 7, 1907
Swan, Jno.	Wessington	379	June 7, 1907

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Scoville, Wm. A.	Earling	413	June 14, 1907
Schattschneider, Herman ..	Ellerslie	415	June 14, 1907
Sinclair, Donald	Cayley	422	June 19, 1907
Sallendach, Robt.	Brant	427	June 19, 1907
Sparrow, Jas. W.	Lethbridge	440	June 20, 1907
Stuenkel, Jas. F.	Claresholm	452	July 15, 1907
Svean, Ole	Claresholm	483	Aug. 13, 1907
Salmon, Jno. F.	Raymond	458	July 15, 1907
Spencer, Jno. H.	Medicine Hat	480	July 24, 1907
Somerset, Thos. B.	Edmonton	494	Oct. 15, 1907
Santrock, Harvey S.	Edmonton	498	Oct. 15, 1907
Skolitzky, Jno. J.	Calgary	520	Oct. 24, 1907
Spreeman, Allen	Didsbury	522	Oct. 24, 1907
Skirkey, Jno. W.	Lacombe	534	Oct. 28, 1907
Simmonds, Henry	Banff	547	Nov. 26, 1907
Stanworth, Stephen	Bankhead	549	Dec. 5, 1907
St. George, Stephen	Macleod	607	Apr. 8, 1908
Schroeder, Waldemer	Macleod	604	Apr. 8, 1908
Simpson, David A.	Macleod	622	Apr. 9, 1908
Sorenson, Willard	Leavitt	629	Apr. 9, 1908
Speight, Frank	Red Deer	637	Apr. 14, 1908
Sawatzky, Bernard P.	Didsbury	650	Apr. 15, 1908
Slater, Alfred	Medicine Hat	661	Apr. 27, 1908
Saunders, Wallace	Conjuring Creek	674	Apr. 27, 1908
Stearns, Harvey N.	Innisfree	679	Apr. 27, 1908
Scoonover, Frank	Content	688	May 1, 1908
Story, Hillard M.	Talbot	692	May 6, 1908
Stinson, Fred	Hastings Coulee	706	May 18, 1908
Svarich, And.	Vegreville	723	May 18, 1908
Snyder, Jacob F.	Magrath	749	Aug. 26, 1908
Sanborn, Francis A.	Innisfail	758	Sept. 8, 1908
Stephen, J. G.	Edmonton	780	Sept. 18, 1908
Sheffiel, David	Edmonton	821	Sept. 21, 1908
Shandro, Andrew S.	Shandro	822	Sept. 28, 1908
Stafford, Geo. F.	Pincher Creek	858	Oct. 6, 1908
Steinhauer, Augustine	Saddle Lake	866	Oct. 27, 1908
Smith, Anthony A.	Knee Hill	889	Mar. 20, 1909
Steeves, Lorne W.	Lethbridge	894	Mar. 24, 1909
Schwartz, Chas.	Lille	921	Mar. 30, 1909
Suitor, Wm.	Gladys	938	Apr. 2, 1909
Stroud, W. D.	Crossfield	948	Apr. 6, 1909
States, John G.	Carstairs	949	Apr. 6, 1909
Smedstad, John	Claresholm	973	Apr. 16, 1909
Schumers, Louis	Willing	992	Apr. 20, 1909
Stern, Fred	Bawlf	1002	Apr. 22, 1909
Stenberg, Fred	Harland	1003	Apr. 22, 1909
Snyder, Chas. G.	Calgary	1028	Apr. 28, 1909
Scott, Geo. T.	Gleichen	1029	Apr. 28, 1909
Scarr, Jos. A.	Bankhead	1342	Apr. 11, 1910
Sampert, Julius	Bruederheim	1042	Apr. 29, 1909
Scott, Fred.	Strathcona	1068	May 21, 1909
Schaumleffel, John	Lloydminster	1069	May 21, 1909
Stein, Philip	Lethbridge	1073	May 26, 1909
Stubbs, Albert W.	Medicine Hat	1082	June 18, 1909
Scarfe, Wm. H. T.	Innisfail	1090	Aug. 24, 1909
Sheppard, Frank H.	Wetaskiwin	1096	Sept. 7, 1909
Samis, Chas.	Calgary	1133	Sept. 21, 1909
Schench, Wm. A.	Thigh Hill	1134	Sept. 21, 1909
Simon, Herb't	Nanton	1135	Sept. 21, 1909
Sommersgill, Robt.	Calgary		

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.**

NAME	ADDRESS	NO OF CERT	DATE OF ISSUE
<i>Third Class - Continued</i>			
Spencer, Fred.	Cardston	1141	Sept. 24, 1909
Smith, John	Kitscoty	1148	Sept. 25, 1909
St. John, Myron	Edmonton	1166	Sept. 29, 1909
Somerset, Delbert	Lawrence	1241	Mar. 15, 1910
Sinclair, Clarence	Coaldale	1242	Mar. 15, 1910
Smith, Leslie E.	Lethbridge	1243	Mar. 15, 1910
Schinnour, Gustav.	Grassy Lake	1244	Mar. 15, 1910
Stirling, Jas.	Michel	1255	Mar. 15, 1910
Stuckey, Wilfred F.	Pincher Creek	1262	Mar. 21, 1910
Sheffield, Geo.	Macleod	1269	Mar. 28, 1910
Strey, Nelson	Lacombe	1295	Apr. 1, 1910
Snyder, Perry	Pakan	1311	Apr. 6, 1910
Symon, Lindsay	Edmonton	1811	May 16, 1910
Shidler, Elmer H.	Cardston	1319	Apr. 7, 1910
Saville, Walter G.	Calgary	1341	Apr. 11, 1910
Steven, Robt. T.	Strathcona	1350	Apr. 13, 1910
Sparks, Geo. A.	Edmonton	1351	Apr. 13, 1910
Smith, Oscar H.	Lethbridge	1364	Apr. 14, 1910
Stone, Wm. N.	Langdon	1380	Apr. 21, 1910
Spencer, Geo.	Calgary	1402	Apr. 28, 1910
Sagomen, Peter E.	Chauvin	1406	May 17, 1910
Silver, John A.	Lethbridge	1413	May 21, 1910
Stallworthy, Wm.	Calgary	1430	June 14, 1910
Savage, Wm. John	Cardston	1438	July 8, 1910
Smith, Henry	Calgary	1456	Aug. 4, 1910
Selwood, Wm. H.	Welsdale	1463	Aug. 24, 1910
Scott, Michael D.	Cayley	1489	Sept. 6, 1910
Spargo, John	Edmonton	1504	Sept. 21, 1910
Sand, Oscar L.	Dina	1505	Sept. 21, 1910
Stewart, Wm. A.	Gilpin	1506	Sept. 21, 1910
Spencer, Thos. E.	Wetaskiwin	1545	Oct. 7, 1910
Shantz, Alson S.	Didsbury	1554	Oct. 17, 1910
Stobbs, Henry	Medicine Hat	1571	Oct. 20, 1910
Smith, John K.	Calgary	1576	Oct. 20, 1910
Smeltzer, Geo. E.	Taber	1592	Dec. 8, 1910
Steeves, Robert	Cleversville	1540	Oct. 3, 1910
Steeves, Robert	Cleversville	1841	May 26, 1911
Snyder, Amasa	Edmonton	1607	Jan. 23, 1911
St. Peter, Moses	Macleod	1639	Mar. 15, 1911
Snyder, Clarence E.	Pincher Creek	1640	Mar. 15, 1911
Stilling, Samuel K.	Three Hills	1658	Mar. 20, 1911
Sergeant, Ed. D.	Calgary	1659	Mar. 20, 1911
Saunders, Chas. O.	Okotoks	1660	Mar. 20, 1911
Stanley, Sans. E.	Calgary	1661	Mar. 20, 1911
Store, William	Calgary	1662	Mar. 20, 1911
Sheardown, Henry	Lorraine	1676	Mar. 24, 1911
Solie, Halbert L.	Warner	1691	Mar. 29, 1911
Sweet, Charles	Grassy Lake	1707	Mar. 31, 1911
Smyrick, Jos.	Grassy Lake	1708	Mar. 31, 1911
Schrieber, William	Eyremore	1709	Mar. 31, 1911
Stephens, S. E.	Ponoka	1723	Apr. 5, 1911
Skallin, Olaf	Pretty Hill	1724	Apr. 5, 1911
Shernak, Chas. J.	Camrose	1725	Apr. 5, 1911
Scott, John S.	Bashaw	1726	Apr. 5, 1911
Seward, Gale	Strome	1727	Apr. 5, 1911
Shields, David W.	Carlstadt	1747	Apr. 10, 1911
Schroeder, Alex	Beaver Hills	1773	Apr. 21, 1911
Smith, Thomas M.	Edmonton	1774	Apr. 21, 1911
Smith, J. Edgar	Noble	1794	Apr. 24, 1911
Schrieber, John	Taber	1793	Apr. 24, 1911

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.**

NAME	ADDRESS	NO. OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Stephens, Samuel	Carmangay	1799	Apr. 26, 1911
Stewart, Joseph	Irricana	1808	May 6, 1911
Soetje, Henry	Chinook	1824	May 20, 1911
Smith, Albert A.	Magrath	1839	May 26, 1911
Spangrud, Emil	Pincher Creek	1940	May 26, 1911
Smiley, Levy	Calgary	1852	June 13, 1911
Stackhouse, Wm. C.	Edmonton	1869	June 26, 1911
Sebern, Horace E.	Edmonton	1872	July 12, 1911
Smeaton, Andrew	Calgary	1903	Aug. 22, 1911
Sorenson, Charles	Lethbridge	1918	Aug. 24, 1911
St. Peter, J. F.	Diamond City	1919	Aug. 24, 1911
Stoner, Orville W.	Strathcona	1922	Aug. 25, 1911
Stevens, George N.	Calgary	1939	Sept. 8, 1911
Skelton, Fred A.	Wheat Centre	1950	Sept. 9, 1911
Slevinski, Alex	Mundare	1956	Sept. 9, 1911
Spallin, Joseph	Fort Saskatchewan	1957	Sept. 9, 1911
Selwood, Wm. H.	Clover Bar	1966	Oct. 18, 1911
Shields, Jas. R.	Edmonton	1987	Nov. 10, 1911
Smith, Samuel George	Huxley	2003	Nov. 25, 1911
Smith, John	Edmonton	2022	Dec. 31, 1911
Trimble, H. W.	Red Deer	*195	Dec. 18, 1901
Townsend, R. C.	Canmore	*314	Oct. 20, 1902
Turner, Leonard J.	Gleichen	469	Nov. 6, 1908
Terry, Peter	Okotoks	*470	Nov. 6, 1903
Turnbull, Robt.	Strathcona	*519	Apr. 8, 1904
Trussler, A. E.	Highland Park	*612	Sept. 27, 1904
Tennison, Jno. C.	Leduc	*722	Mar. 3, 1905
Tribel, Clarence A.	Red Deer	*782	Mar. 24, 1905
Tillapaugh, Jno.	Warwick	48	Sept. 23, 1905
Tanner, Wm. Jos.	Raymond	15	Sept. 16, 1905
Thomas, A. I.	Frank	890	Mar. 24, 1909
Treasure, Sam.	Claresholm	58	Dec. 19, 1905
Trembley, Miles I.	Edmonton	73	Mar. 26, 1906
Taylor, David A.	Red Deer	162	July 7, 1906
Tufts, Josiah	Taber	187	Aug. 13, 1906
Turner, Ernest H.	Warwick	214	Sept. 3, 1906
Thompson, Chas.	Red Deer	297	May 20, 1907
Towers, Fred. J.	Red Deer	299	May 20, 1907
Traub, Wm.	Didsbury	325	May 29, 1907
Telford, Ernest E.	Vermillion	330	May 31, 1907
Tennant, Wm. J.	Calgary	350	June 4, 1907
Thompson, Geo. A.	Red Willow	374	June 7, 1907
Tiede, August	Stettler	375	June 7, 1907
Trussler, A. D.	Strathcona	416	June 14, 1907
Thrum, Chas. W.	High River	433	June 19, 1907
Turner, Geo. H.	Taber	445	July 15, 1907
Tucker, Glines	Stavely	1843	May 29, 1911
Tollestrup, Christian F.	Raymond	472	July 15, 1907
Thwaytes, Lancelot	Edmonton	497	Oct. 15, 1907
Tewsley, Jas. S.	Carstairs	525	Oct. 24, 1907
Thompson, Thos. G.	Edmonton	589	Apr. 2, 1908
Turnbull, W. N.	Penhold	634	Apr. 14, 1908
Taylor, Orrin O.	Harmattan	647	Apr. 14, 1908
Tidball, Wm. E.	Carstairs	651	Apr. 15, 1908
Taylor, Wm. L.	Killam	705	May 18, 1908
Thronsdon, Theo.	Camrose	714	May 18, 1908
Teardiff, Jos. E.	Fort Vermillion	743	Aug. 6, 1908
Toews, Cornelius F.	Stern	765	Sept. 11, 1908
Tronnes, Peter	Dorelee	808	Sept. 2, 1908
Todd, Walker	Macleod	1270	Mar. 28, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Taylor, Wm. J.	Lochinvar	976	Apr. 17, 1909
Turner, Jas. A.	Taber	1015	Apr. 25, 1909
Trono, Louis	Canmore	1032	Apr. 28, 1909
Trono, Emile	Canmore	1033	Apr. 28, 1909
Townsend, Leon E.	Stirling	1085	July 16, 1909
Thomas, Wm. H.	Lloydminster	1167	Sept. 29, 1909
Todd, Wm.	Edmonton	1168	Sept. 29, 1909
Tillapaugh, John F.	Vegreville	1169	Sept. 29, 1909
Thompson, Frank L.	Macleod	1271	Mar. 28, 1910
Tanner, Jas.	Macleod	1272	Mar. 28, 1910
Taylor, Henry G.	Ponoka	1296	Apr. 1, 1910
Toward, Jas. B.	Bankhead	1343	Apr. 11, 1910
Thomas, Emery R.	Carlstadt	1398	Apr. 25, 1910
Thomas, David R.	Lethbridge	1414	May 21, 1910
Tessier, Geo. A.	Ena	1431	June 14, 1910
Toppin, Samuel S.	Calgary	1459	Aug. 15, 1910
Tollestrup, Rudolph W.	Raymond	1468	Aug. 30, 1910
Tupper, Roy O.	Kipp	1483	Sept. 1, 1910
Turner, Philip R.	Fort Saskatchewan	2004	Nov. 29, 1911
Thomas, Wm.	Bassano	1528	Sept. 23, 1910
Todd, Robt.	Strathcona	1562	Oct. 19, 1910
Tharp, Chancey L.	Taber	1572	Oct. 20, 1910
Tomfohr, Geo.	Milk River	1587	Nov. 17, 1910
Thompson, Henry	Castor	1677	Mar. 24, 1911
Tennis, Lloyd	Homeglen	1678	Mar. 24, 1911
Taylor, John W.	Lethbridge	1692	Mar. 29, 1911
Thoreson, Thos. L.	Holden	1700	Mar. 31, 1911
Tingley, Alex B.	Blackfoot	1701	Mar. 31, 1911
Turnell, Reese W.	Three Hills	1728	Apr. 5, 1911
Towler, John W.	Sedgewick	1729	Apr. 5, 1911
Taylor, Frank S.	Carlstadt	1748	Apr. 10, 1911
Thillet, Claud	Calgary	1823	May 20, 1911
Thompson, And. J.	Lethbridge	1837	May 26, 1911
Thielen, Joseph	Milk River	1838	May 26, 1911
Toews, Peter L.	Stern	1904	Aug. 22, 1911
Tollestrup, Rudolph W.	Raymond	1951	Sept. 9, 1911
Trail, Herbert	Calgary	1996	Nov. 16, 1911
Thompson, Gordon B.	Strathcona	2011	Dec. 11, 1911
Utas, Peter	Wetaskiwin	*331	Feb. 13, 1903
Umbach, Wm.	Spruce Grove	*357	May 13, 1903
Umbach, Jno. H.	Spruce Grove	67	Mar. 16, 1906
Urback, Albert F.	Calgary	258	Jan. 22, 1907
Umbach, Edgar A.	Spruce Grove	656	Apr. 22, 1908
Underwood, Harry A.	Emsbury	689	May 1, 1908
Ullman, Albert	Granum	842	Oct. 2, 1908
Vogel, Wilhelm	Strathcona	*22	Oct. 2, 1899
VanMeter, Chas. E.	Millet	*212	Dec. 18, 1901
Vanacker, Louis	St. Albert	*373	May 13, 1903
Vig, Oscar O.	Bentley	763	Mar. 24, 1905
Veeder, Robt. B.	Wetaskiwin	*791	Mar. 27, 1905
VanSellick, Jacob	Edmonton	32	Sept. 16, 1905
Van Wegan, Louis	Raymond	42	Sept. 18, 1905
Vogel, Ferdinand	Strathcona	45	Sept. 18, 1905
Vig, Casper O.	Bentley	110	Apr. 25, 1906
Vaughan, Frank	Calgary	336	June 14, 1907
VanWinkle, Howard	High River	430	June 19, 1907
VanWinkle, Chester A.	High River	439	June 19, 1907
Venables, Wm.	Medicine Hat	482	Aug. 1, 1907
Veith, F. Wm.	Inga	490	Oct. 15, 1907
Vesseur, Moses	Sylvan Lake	1194	Feb. 21, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Vlasak, Rudolph	Wessington	539	Oct. 28, 1907
Vandburgh, Jas. N.	Calgary	587	Mar. 23, 1907
Vanyel, Chas.	Edmonton	597	Apr. 2, 1908
Vanderford, Sylvester A. ...	Stettler	1297	Apr. 1, 1910
Vint, Francis	Stettler	1298	Apr. 1, 1910
Varembo, Olaf H.	Camrose	1546	Oct. 7, 1910
VanMeter, Jacob A.	Millet	823	Sept. 28, 1908
Valentine, Marcon F.	Bellevue	924	Mar. 30, 1909
Vaughn, Clifford E.	Wetaskiwin	1097	Sept. 7, 1909
VanKluck, Alerie	Reid Hill	1136	Sept. 21, 1909
Von Wald, Ernest C.	Stavely	1952	Sept. 9, 1911
Witmer, Abram	Strathcona	*29	Oct. 9, 1899
Wilson, Jas.	Calgary	*65	July 19, 1900
Wulff, Nick	Edmonton	1082	July 13, 1909
Walker, Robt.	Edmonton	*251	Aug. 18, 1902
Weder, Frank	Beaver Hills	*462	Oct. 28, 1903
Wells, Chas.	Rosenroll	*517	Apr. 18, 1904
Wardrop, Jno. L.	East Clover Bar	*640	Oct. 15, 1904
Will, Louis	Bankhead	*682	Jan. 3, 1905
Wilkinson, Richard	Olds	*754	Mar. 24, 1905
Whitecotton, Robt. M.	Lacombe	164	July 14, 1906
Wilson, Wm. Jos.	Coleman	9	Sept. 16, 1905
Wallace, W. J.	Macleod	12	Sept. 16, 1905
Wood, Wm. F.	Tofield	44	Sept. 18, 1905
Whalen, Jas.	Edmonton	69	Mar. 1, 1906
Wetterberg, Theo.	Canmore	100	Apr. 20, 1906
Watts, Sam.	Lacombe	103	Apr. 24, 1906
Werner, Wm. Fred.	Red Deer	108	Apr. 24, 1906
Wavmark, Richard T.	Calgary	123	Apr. 30, 1906
Whitaker, Wm.	Edmonton	129	May 4, 1906
Walker, Robt. T.	Strathcona	134	May 10, 1906
Wisler, Oliver P.	Stettler	136	May 10, 1906
Webber, Alfred	Medicine Hat	168	Aug. 11, 1906
Wickens, J. A.	Cayley	199	Aug. 13, 1906
Wright, Bruce M.	Calgary	205	July 30, 1906
Watters, Wm. E.	Strathcona	277	Sept. 20, 1906
Wynn, Robt.	Kneehill Valley	291	May 20, 1907
Wood, Rex. R.	Carstairs	309	May 29, 1907
Wacker, Grover	Rawdonville	322	May 29, 1907
Webster, Robt. J.	Marwayne	390	June 14, 1907
Walkermeyer, Wm.	Heatherbrae	396	June 14, 1907
Wilcox, Isaac A.	High River	423	June 19, 1907
Wilson, Archibald	Brant	1465	Aug. 10, 1910
Wilderman, Raymond A. ...	High River	437	June 19, 1907
Walters, Wm.	Claresholm	864	Oct. 24, 1908
Wilcocks, Wm.	Lethbridge	475	July 15, 1908
Watson, Walter J.	Claresholm	678	Mar. 23, 1908
White, Jack	Calgary	585	Mar. 23, 1908
Wright, Merit B.	Edmonton	593	Apr. 2, 1908
White, Geo. T.	Red Deer	639	Apr. 14, 1908
Williams, Frank T.	Crossfield	682	May 1, 1908
Winkleman, Jules	Leduc	711	May 18, 1908
Wilbert, Chas.	Wetaskiwin	721	May 28, 1908
Walker, Preston	Lacombe	772	Sept. 14, 1908
Watson, P.	Edmonton	781	Sept. 18, 1908
Wentworth, Wm.	Okotoks	806	Sept. 22, 1908
Wilson, Bert M.	Nanton	843	Oct. 2, 1908
Wright, Leroy H.	Cardston	859	Oct. 6, 1908
Wilson Chas. O.	Spring Coulee	803	Oct. 21, 1908
Wallwork, Jas.	Taber	903	Mar. 24, 1909

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
<i>Third Class—Continued</i>			
Webster, Alexr.	Pincher Creek	933	Apr. 1, 1909
Weber, Noah R.	Carstairs	950	Apr. 6, 1909
Watts, Geo.	Macleod	957	Apr. 9, 1909
Wilson, Andrew W.	Vegreville	985	Apr. 20, 1909
Walker, Edgar N.	Mundare	986	Apr. 20, 1909
Wilson, Jos. W.	Edmonton	987	Apr. 20, 1909
Wyman, Clark I.	Magrath	1007	Apr. 25, 1909
Walker, Chas. H.	Warner	1008	Apr. 25, 1909
Williams, Edgar H.	Bankhead	1034	Apr. 28, 1909
Woodcock, Frank F.	Medicine Hat	1155	Sept. 28, 1909
Wiltzen, Martin	Chipman	1043	Apr. 29, 1909
White, Edward	Lethbridge	1056	May 3, 1909
Ward, John	Edmonton	1071	May 21, 1909
Winter, Archibald	Strathcona	1072	May 21, 1909
Weisser, Christian B.	Camrose	1094	Sept. 7, 1909
West, Wm. A.	Mewassin	1099	Sept. 13, 1909
White, Thos. J.	Stirling	1108	Sept. 15, 1909
Wick, Anton	Lineham	1137	Sept. 21, 1909
Wilson, Aura L.	Carstairs	1138	Sept. 21, 1909
Wood, Roy J.	Carstairs	1139	Sept. 21, 1909
Wolanskey, John	Edmonton	1149	Sept. 25, 1909
Wonnop, Jos. L.	Lawrence	1156	Sept. 28, 1909
Watt, Geo.	Strathcona	1184	Dec. 4, 1909
White, Chris., Jr.	Red Deer	1201	Mar. 3, 1910
Wharren, Frank T.	Calgary	1213	Mar. 7, 1910
Williams, Albert	Magrath	1245	Mar. 15, 1910
Wilson, Clifford	Camrose	1299	Apr. 1, 1910
Watson, Fredk.	Bankhead	1344	Apr. 11, 1910
Watson, Robt.	Edgerton	1352	Apr. 13, 1910
Wilson, Rufus B.	Tofteld	1354	Apr. 13, 1910
Woods, Henry	Warner	1365	Apr. 14, 1910
White, Jas. Albert	Lethbridge	1366	Apr. 14, 1910
Wilson, Robt.	Medicine Hat	1399	Apr. 25, 1910
Wooley, Norman	Medicine Hat	1759	Apr. 15, 1911
Whitehead, Martin	Banff	1432	June 14, 1910
Woods, Harry	Lethbridge	1439	July 8, 1910
White, John W.	Brooks	1452	July 15, 1910
Wood, Jas.	Bellevue	1474	Aug. 31, 1910
Walker, John A.	Warren	1490	Sept. 7, 1910
Williams, Wm. E.	Vermilion	1508	Sept. 21, 1910
Wagner, A. C. L.	Calgary	1529	Sept. 23, 1910
Wilson, John L.	Bassano	1530	Sept. 23, 1910
Wilson, Wm. John	Angus Ridge	1547	Oct. 7, 1910
Wocknitz, Paul	Magrath	1573	Oct. 20, 1910
Wessenger, Ray	Medicine Hat	1574	Oct. 20, 1910
		1749	Apr. 12, 1911
Wolfe, John W.	Edmonton	1588	Nov. 21, 1910
Williams, Chas. A.	Calgary	1595	Dec. 15, 1910
Williams, Alfred L.	Calgary	1596	Dec. 15, 1910
Weston, Thomas W.	Hillcrest	1633	Mar. 11, 1911
Watson, Wilfred G.	Calgary	1663	Mar. 20, 1911
Wallace, Richard R.	Lloydminster	1669	Mar. 22, 1911
White, Wm. R.	Castor	1679	Mar. 24, 1911
Wight, H. E.	Cardston	1683	Mar. 28, 1911
Wright, Oscar H.	Warner	1693	Mar. 29, 1911
Wagar, Elmore C.	Bow Island	1710	Mar. 31, 1911
Wagar, George	Bow Island	1711	Mar. 31, 1911
Wilson, Charles B.	Olds	1730	Apr. 5, 1911
Wood, Thomas W. G.	Lethbridge	1794	Apr. 24, 1911
Weeks, George S.	Seven Persons	1795	Apr. 24, 1911

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO OF CERT	DATE OF ISSUE
<i>Third Class—Continued</i>			
Woods, George	New Dayton	1842	Apr. 26, 1911
Woodrow, Duncan	Edmonton	1847	June 9, 1911
Wilbraham, George	Edmonton	1873	July 12, 1911
Wallace, F. M.	Lethbridge	1878	July 13, 1911
Williams, Thomas	Grand Prairie	1884	July 19, 1911
Wilson, Ernest	Langdon	1885	July 19, 1911
Walker, Jas. H.	Gleichen	1905	Aug. 22, 1911
Wonsor, Louis A.	Calgary	1940	Sept. 8, 1911
Wagar, Arnold	Millet	1958	Sept. 9, 1911
Wilson, Oscar L.	High River	1971	Oct. 20, 1911
Welsh, John	Vermilion	2012	Dec. 12, 1911
Williams, Ross D.	Winnifred	2017	Dec. 19, 1911
Wertz, Ran. W.	Lethbridge	2018	Dec. 19, 1911
Whalls, George	Calgary	2020	Dec. 23, 1911
Young, Arthur	Banff	*491	Mar. 14, 1904
Young, D. M.	Lethbridge	4	Sept. 16, 1905
Yeamans, Chas. A.	Edmonton	74	Mar. 26, 1906
Young, Jno. T.	Stavely	465	July 15, 1907
Young, Alvia L.	Markerville	643	Apr. 14, 1908
Young, David	Strathcona	786	Sept. 21, 1908
Young, Peter	Calgary	959	Apr. 9, 1908*
Young, Jas.	Edmonton	1355	Apr. 13, 1910
Young, Jas.	Gleichen	1531	Apr. 23, 1910
Yeomans, George M.	Brocket	1634	Mar. 15, 1911
Zimmerman, Arthur C.	Bawlf	1548	Oct. 7, 1910
Zuehlke, F. C.	Urquhart	*188	Dec. 18, 1901
Zimmerman, Otto.	Red Lodge	*756	Mar. 24 1905
Zachowski, John	Edison	1150	Sept 25, 1909

*Indicates Certificate was granted by North-West Territories.

CORRESPONDENCE BRANCH

JOHN STOCKS, Esq.,
Deputy Minister of Public Works,
 Edmonton, Alta.

SIR,—With reference to the work of this branch for the year the following comparative statement will give a fair idea of the year's work:

	1909	1910	1911
Number of letters received	118,439	136,092	146,647
Number of returned letters and circulars	10,462	11,375	15,263
	128,901	147,467	161,910
Number of entries in cash book ...	23,421	30,821	31,862
Amount of cash received	\$684,840.49	\$767,150.58	\$954,790.75
Number of registered letters received .	4,492	6,642	5,351
Number of registered letters sent . . .	12,946	11,786	8,469
Number of letters sent	85,705	97,560	112,476
Number of receipts and tax certificates sent	28,268	23,069	32,185
Number of circulars sent	57,187	81,097	90,405
	171,160	196,726	235,066
SUMMARY			
Number of communications sent	171,160	196,726	161,910
Number of communications received	128,901	147,467	235,066
	300,061	344,193	396,976
Average number for working day	1,000	1,147	1,324
Amount of postage used	\$3,350.54	\$3,357.59	\$3,641.32

Respectfully submitted,

R. J. GILLIS,
Chief Clerk.

ACCOUNTANT'S BRANCH

Staff	{ 1 Accountant 4 Clerks	
Amount provided for Capital Account Expenditure	\$1,616,333.00	
Amount provided for expenditure chargeable to Income	513,000.00	
		\$2,129,333.00
Amount provided for Civil Government Expenditure		61,620.00
Total amount provided in connection with the Department of Public Works during the year 1911		\$2,190,953.00
Monies collected during 1911 on account of Public Works, as detailed below, and placed to the credit of General Revenue—		
Steam Boilers Branch	\$ 15,388.05	
Coal Mines Branch	1,773.10	
Road Leases	553.00	
Miscellaneous from Surveys Branch	1,671.15	
Monies received on account of sale of Material, General Refunds, etc.	46,986.21	
		\$ 66,371.51
Monies collected by Public Works, and placed to the credit of General Revenue Suspense Account for distribution to proper accounts	\$ 7,171.48	
Monies on hand in General Revenue Suspense Account, December 31st, 1911, as represented by Cash Book balance		\$ 1,606.27
Amount received on account of Large Local Improvement Districts and placed to the credit of Trust Account "A"		245,644.42
Amount expended for work and cost of administration in Large Local Improvement Districts during 1911		143,239.92
Amount expended from General Revenue during 1911—		
Income	\$ 471,629.76	
Capital	1,522,070.56	
		\$1,993,700.32
Amount expended in connection with Civil Government during 1911		58,298.05
Receipts	\$ 313,622.20	
Expenditure	2,195,238.29	
		\$2,508,860.49
		\$2,508,960.49

Details of expenditure from general revenue for the year are as follows:

Furnishing and maintenance of public buildings, \$93,777.00. Caretaking and maintenance of government house amounted to \$4,156.49. Construction of new buildings amounted to \$1,194,856.59. Purchase of sites for public buildings in the province cost \$78,619.24. Inspection of public works cost \$22,180.53. Inspection of coal mines cost, \$13,729.56. Inspection of steam boilers amounted to \$20,583.99. Fireguard inspection cost, \$65.45. Boring and testing for water cost, \$5,171.86. Installing and operating ferries cost, \$29,587.83. The amount expended in connection with provincial drainage amounted to \$16,519.61. Repairs to bridges cost, \$15,579.28. Construction

of roads cost, \$210,381.36. The amount expended upon colonization roads amounted to \$19,798.81. Construction of new bridges amounted to \$172,005.98. The amount expended in connection with the surveys department amounted to \$74,209.47. The amount expended in connection with the purchase of building stock to complete interior of public buildings amounted to \$5,869.61. Tools and implements for road and bridge work cost, \$9,453.46. Payment of taxes on forfeited lands amounted to \$3,399.90, and for unforeseen and unprovided for accounts the sum of \$3,754.30 was expended.

The total amount expended upon staff salaries for the year amounted to \$47,262.81. Expenses in connection with the audit of small local improvement districts amounted to \$5,469.17. Postage used in the department cost \$2,881.88. Telegrams and telephones, etc., cost \$1,408.68, and general expenses cost \$1,275.51.

The total amount expended from local improvement trust account "A" amounted to \$143,239.92. Of this amount the sum of \$31,253.20 was paid for salaries, but of this latter amount educational trust account reimbursed this account for salaries to the extent of \$4,588.02, and for stamps \$328.28.

Number of accounts examined and passed to the treasury department for payment from general revenue	\$10,820
Number of accounts passed for payment in connection with local improvement districts	1,423
Total number of accounts passed for payment.....	<u>\$12,243</u>
Number of cheques issued in connection with payments of accounts from local improvement districts	\$ 4,436
Number of cheques issued in connection with general revenue suspense account	196
Total number of cheques issued during year	<u>\$ 4,632</u>

Respectfully submitted,

HENRY K. HYDE,

Accountant.

TELEPHONE BRANCH

JNO. STOCKS, Esq.,

Deputy Minister Public Works,

Edmonton.

SIR,—The following is a summary of work undertaken and completed by Telephone Branch for year 1911:

CONSTRUCTION
Rural Lines Built During 1911

EXCHANGE (RURAL)	SUBS.	POLE MILES	WIRE MILES
Acme	1		
Airdrie	61	59	65
Barons	42	36	65
Bawlf	21	5	7
Bentley	6	2	2
Bittern Lake	5	3	3
Bon Accord		2	...
Bottrel	19	9	16
Camrose	18	11	23
Cardston	1	2	2
Carstairs	34	28	50
Cayley	65	29	35
Clive	41	29	46
Cochrane	9	13	25
Conjuring Creek	67	60	69
Content	19	5	5
Cowley	37	38	53
Crossfield	46	47	64
Daysland	57	35	60
Edberg	2	1	1
Edmonton	57	31	31
Edwell	39	32	36
Fishburn	21	21	27
Fort Saskatchewan	46	35	45
Gleichen	28	17	9
Granum	24	17	26
Harmattan	18	20	20
Hastings Coulee	24	18	27
High River	4	4	4
Innisfail	31	37	49
Killam	8	4	6
Kneehill	2	1	1
Lacombe	50	32	55
Lakeview	1	1	1
Leduc	31	12	14
Lethbridge	43	41	71
Lloydminster	35	42	70
Medicine Hat	4	4	6
Morinville	7	5	7
Mundare	4	3	3
Nanton	14	13	25
Namaka	1	1	4
Okotoks	45	42	58
Olds	43	38	49
Oxville	35	26	36
Parkland	4	1	5
Penhold	2	1	1
Pincher Creek	15	16	18
Ponoka	25	22	27
Raymond	2	2	2
Red Deer	4	1	1
Rimbey	1	1	1
Soda Lake	24	16	28
St. Albert	16	8	20
Stavely	40	33	42
Stony Plain	25	21	28
Strome	16	...	...
Sunnyslope	2	1	1
Taber	6	5	9
Tees	28	22	28
Millet	1	....	....
Tofield	3	3	4
Vermilion	43	53	78
Vegreville	9	1	1
Wetaskiwin	14	13	17
Totals	1446	1131	1602

Long Distance Lines Built During 1911

LINE	POLE MILES	WIRE MILES
Calgary-Strathmore		48
Calgary-High River		39
Daysland-Hastings Coulee	8	23
Edmonton-Lethbridge		354
Fort Saskatchewan-Lamont		25
Fort Saskatchewan-Vegreville		72
High River-Blackie	5	19
High River-Vulcan	19	39
Lacombe-Stettler		53
Lacombe-Alix		30
Leduc-Wetaskiwin		22
Lethbridge-Raymond		25
Lethbridge-Monarch		22
Medicine Hat-Irvine	23	23
Medicine Hat-Brooks	92	95
Medicine Hat-Eagle Butte	10	10
Onoway-Manley	10	10
Rivierre Qui Barre-Belvedere	35	35
Raymond-Cardston	19	27
Stony Plain-Entwistle	28	15
St. Albert-Rivierre Qui Barre	18	
Olds-Didsbury		11
Three Hills Extension	4	4
Wetaskiwin-Ponoka		22
Totals	273	1068

New Toll Offices Opened in 1911

DIRECT CHECKING.—Bowell, Carlstadt, Fulham Park, Hastings Coulee, Irvine, Pashley, Belvedere, Brant, Brooks, Dunstable, Entwistle, Fallis, Gainsford, Onoway, Seba, Seymour, Sion, Suffield, Tilley, Vulcan.

SUB.—Balmoral, Burmis, Camota, Clearview, Dunmore, Good Hope, Heather Brae, Kingman, Lake de May, L'Armoureaux, Old Red Willow, Quarrel, Round Hill, Springvale, Brownlow's Ldg., Calder, Eagle Butte, McKellar, Partridge Hill, Pleasant View, Yorkville.

Rural Exchanges Established in 1911

Botha, Cowley, Gleichen, Hastings Coulee, Morinville, Ministik, Namaka, Okotoks, Parkland, Penhold, Soda Lake and St. Albert.

New Exchanges Constructed in 1911

Acme, Barons, Bassano, Bow Island, Brooks, Carmangay, Cayley, Gadsby, Grassy Lake, Langdon, Monarch, Irvine, Stony Plain, Strome.

OPERATION AND MAINTENANCE.

The following is a statement of revenue and expenditure for 1911:

EXPENDITURE

Construction (Capital Account)—

Exchanges, Lines and Toll Stations	\$ 960,704.26
Stock	145,677.72
Buildings and sites, etc.	48,289.76
	\$1,154,671.74

DEPARTMENT OF PUBLIC WORKS

Capital Account carried forward		\$1,154,671.74
Operation and Maintenance Expense—		
Operation	\$293,346.71	
Maintenance	118,578.60	
		<u>\$ 411,925.31</u>
Total Expenditure		\$1,566,597.05

RECEIPTS

Exchange Rentals	\$249,607.14	
Rural	47,343.28	
Tolls	202,396.13	
Sale of material	3,357.33	
Rent of office, Calgary	1,100.00	
Interest (Suspense Accounts, balanced)	2,032.83	
Refunds, 8 / 9 / 10	738.87	
Miscellaneous	254.60	
		<u>\$506,830.18</u>

PROFIT AND LOSS FOR THE YEAR 1911

REVENUE

General Fees (Rentals and Tolls)	\$499,346.55	
Rent office, Calgary	1,100.00	
Interest (Suspense Accounts balanced)	2,032.83	
		<u>\$502,479.38</u>

EXPENSES

Operation and Maintenance—		
Operation	\$293,346.71	
Maintenance	118,578.60	
		<u>\$411,925.31</u>
Net Profit		\$90,554.07

The above statement shows a substantial surplus after all maintenance, operating and interest charges have been paid.

For purposes of comparison the following are the receipts on toll business for 1910 and 1911:

Toll Line Receipts, 1910	\$145,723.57
Toll Line Receipts, 1911	202,396.13
Receipts on Exchange Line Rentals, 1910	\$184,249.38
Receipts on Exchange Line Rentals, 1911	249,607.14
Receipts on Rural Line Rentals, 1910	\$ 28,525.85
Receipts on Rural Line Rentals, 1911	47,343.28

Respectfully submitted,

A. J. RICHARDS,
Superintendent of Telephones.

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